

# FULBAT<sup>®</sup>

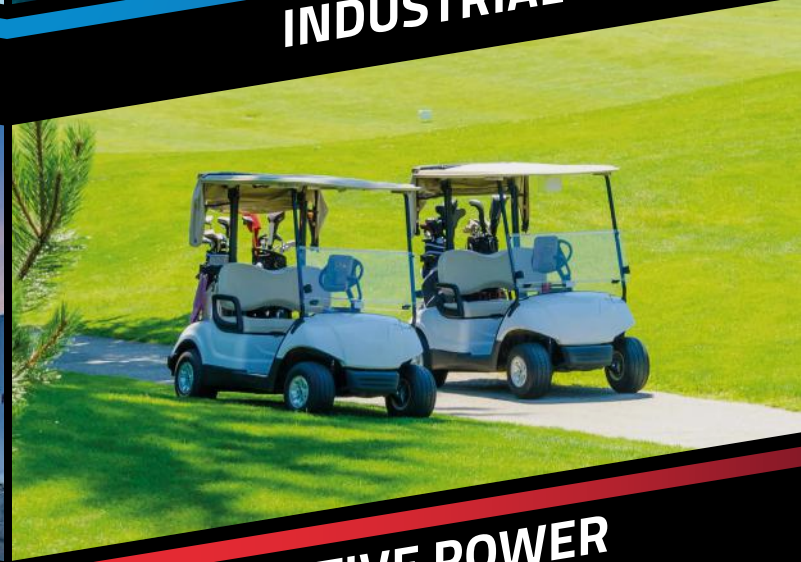
## CATALOG 2025



STARTER



INDUSTRIAL



MOTIVE POWER

# TABLE OF CONTENTS

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# ABOUT US

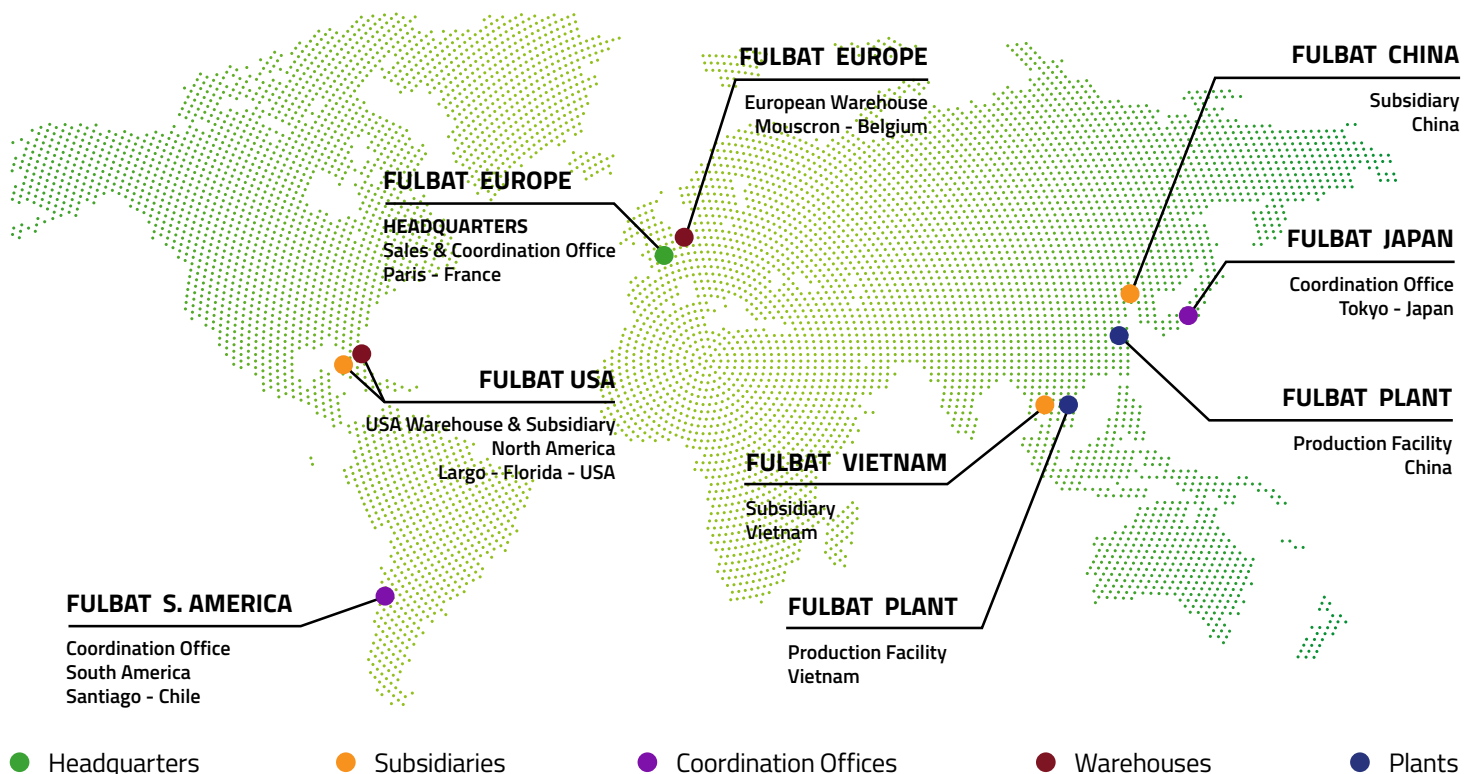
French based company, FULBAT is a leading force in the battery business, present in both replacement and OEM markets. Founded in 2005, we are constantly developing, manufacturing, marketing and selling lead-acid batteries, as well as lithium batteries and battery chargers.

With our technical knowledges and experience, we are able to design new innovative battery solutions to meet the current customers' expectations. We offer an exhaustive program of **Starter batteries**, **Industrial batteries** and **Motive Power batteries**, covering a full range of application. Our Starter Battery range is designed to cover all powersport applications and Lawn & Garden applications.

FULBAT batteries and chargers are widely distributed on all continents through a strong distributor's network, and are very well recognized as qualitative, performing and reliable products.

Manufactured according to the most innovative production processes, FULBAT products are certified by ISO 9001, ISO 14001 and TS 16949.

## WORLDWIDE PRESENCE



# FULBAT<sup>®</sup>

## POWERSPORT



## BATTERY RANGE

LITHIUM | GEL | MF | DRY | CHARGERS





# INTRODUCTION



No matter what type of vehicle you have or how you use it, our wide range of starter batteries has been developed to satisfy all current market requirements.

Composed of a comprehensive line of batteries, FULBAT Starter Battery offers different technologies: **LITHIUM (LiFePO<sub>4</sub>), GEL, MF and DRY.**

FULBAT batteries will provide multiple and varied benefits: high starting performance, light weight, ready to use, maintenance free, vibration resistance and many others, whether for leisure or competition.

From 1<sup>st</sup> February 2021, a new EU regulation for the sale of acid for batteries came into force. On that date, the sale of electrolyte for batteries (sulfuric acid), has been prohibited to end users (non-professionals), and only professionals are now entitled to acquire batteries with an electrolyte pack. As a battery specialist, FULBAT maintains all its product ranges and offers the widest ready to use battery range.

## APPLICATIONS

FULBAT Starter Battery covers the wide majority of powersport applications.



MOTORCYCLE

A motorcyclist in full gear is riding a sport bike on a road, with a sunset in the background.

SCOOTER

A person is riding a modern scooter on a paved road, with trees in the background.

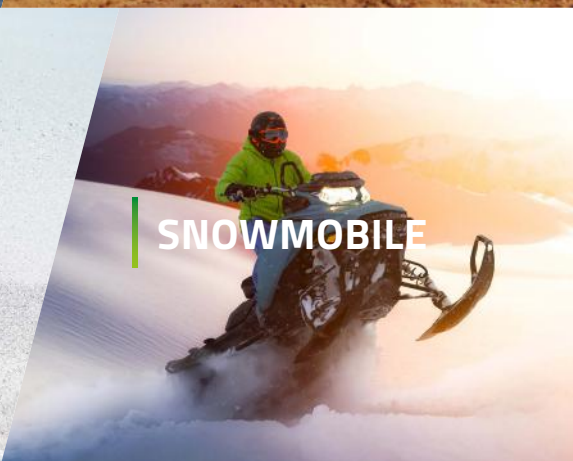
ATV

A person is riding an ATV on a dirt track, kicking up a cloud of dust.

SSV/UTV

A side-by-side vehicle (SSV/UTV) is driving on a dirt track, kicking up a large amount of dust.

WATERCRAFT

A person is watercrafting on a lake, creating a large splash of water.

SNOWMOBILE

A person is riding a snowmobile on a snowy slope, kicking up a cloud of snow.



# MAIN FEATURES

From Dry to Lithium technology and from daily use to leisure, FULBAT batteries provide different performances and features.

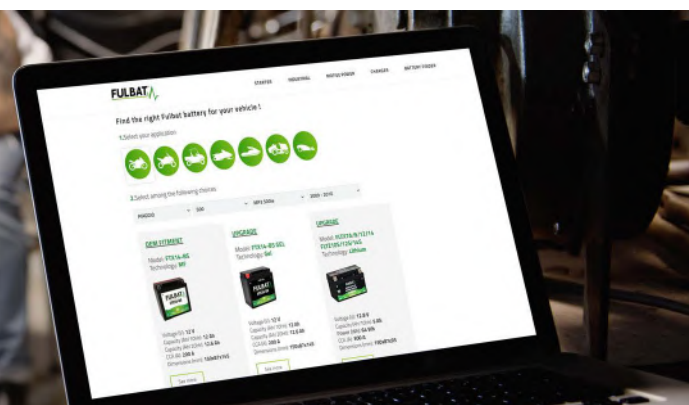


|             |                                                                                                                         | LITHIUM | GEL   | MF    | DRY   |
|-------------|-------------------------------------------------------------------------------------------------------------------------|---------|-------|-------|-------|
| PERFORMANCE | Cold Cranking Amp                                                                                                       | ●●●●●   | ●●●●● | ●●●●● | ●●●●● |
|             | Cycle Life                                                                                                              | ●●●●●   | ●●●●● | ●●●●● | ●●●●● |
|             | Vibration resistance                                                                                                    | ●●●●●   | ●●●●● | ●●●●● | ●●●●● |
|             | Weight                                                                                                                  | ●●●●●   | ●●●●● | ●●●●● | ●●●●● |
|             | Shelf Life in storage                                                                                                   | ●●●●●   | ●●●●● | ●●●●● | ●●●●● |
| FEATURES    | Ready to use                                                                                                            | ✓       | ✓     | -     | -     |
|             | Maintenance Free                                                                                                        | ✓       | ✓     | ✓     | -     |
|             | No acid handling                                                                                                        | ✓       | ✓     | -     | -     |
|             | Easy to ship                                                                                                            | ✓*      | ✓     | -     | -     |
|             | Compatible e-commerce<br>(compliant with 2021 European (EU) 2019/1148<br>Regulation for the sale of acid for batteries) | ✓       | ✓     | -     | -     |
|             | Multipositional fitment                                                                                                 |         |       |       |       |
|             |                                                                                                                         |         |       |       |       |

\*According to ADR, IMDG & IATA regulations

## BATTERY FINDER

Find the right battery for your vehicle on [www.fulbat.com](http://www.fulbat.com)





# LITHIUM (LiFePO4) RANGE

High performance & light weight

The Lithium range is designed to offer the ultimate riding experience. Ready to use and with ultra-light weight conception, this LiFePO4 range will ensure extreme starting performance, very low self-discharge and extreme cycle life. Thanks to the Battery Management System integrated, these batteries offer a very safe solution, ideal for the most demanding riders.

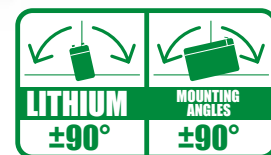
## FEATURES

- Ready to use
- 100% maintenance Free
- Ultra-lightweight compare to lead acid battery
- Very high cold cranking performance
- Easy to install with the foam spacers
- Ultra-safe thanks to the integrated BMS
- Very fast recharge
- Multi-positional fitment
- Integrated LCD battery tester
- Very low self-discharge



## COMPATIBLE CHARGERS

- Fulload 1000 - battery capacity up to 20Ah
- Fulload F4 - battery capacity up to 80Ah
- Fulbank 2000 - battery capacity up to 40Ah



|     | Designation                       | P/N    | Power (Wh) | Capacity Ah (10Hr) | CCA (A) | Dimensions (±2mm) |     |     | Polarity | Charging current (A) |     | Equivalent lead-acid battery types (most popular models)                   |
|-----|-----------------------------------|--------|------------|--------------------|---------|-------------------|-----|-----|----------|----------------------|-----|----------------------------------------------------------------------------|
|     |                                   |        |            |                    |         | L                 | W   | H   |          | Std                  | Max |                                                                            |
|     | FLTK01*                           | 560501 | 25.6       | 2                  | 140     | 86                | 48  | 90  | ⊖ ⊕      | 1                    | 2   | KTM OE replacement                                                         |
| NEW | FLTX4L/5L/7L<br>FLTZ5S/6S/7S**    | 560635 | 25.6       | 2                  | 120     | 107               | 56  | 85  | ⊖ ⊕      | 1                    | 2   | FB4L-B; FTX4L-B/FTZ5S; FTX5L-B/FTZ6S;<br>FTX7L-B/FTZ7S; FTZ7V; FTZ8V       |
| NEW | FLTX4L/5L/7L+<br>FLTZ5S/6S/7S+    | 560636 | 38.4       | 3                  | 180     | 107               | 56  | 85  | ⊖ ⊕      | 1.5                  | 3   | FB4L-B; FTX4L-B/FTZ5S; FTX5L-B/FTZ6S;<br>FTX7L-B/FTZ7S; FTZ7V; FTZ8V       |
|     | FLT7B/9B                          | 560624 | 51,2       | 4                  | 240     | 150               | 65  | 93  | ⊕ ⊖      | 2                    | 4   | FT7B-4; FT7B-BS; FT9B-4; FT9B-BS                                           |
| NEW | FLTX7A/9<br>FLTZ10S               | 560633 | 38.4       | 3                  | 180     | 150               | 87  | 93  | ⊕ ⊖      | 1.5                  | 3   | FTX7A-BS; FTX9-BS; FTZ10S                                                  |
|     | FLTX7A/9/12/14<br>FLTZ10S/12S/14S | 560625 | 64         | 5                  | 300     | 150               | 87  | 93  | ⊕ ⊖      | 2.5                  | 5   | FTX7A-BS; FTX9-BS; FT12A-BS;<br>FTX12-BS; FTX14-BS; FTZ10S; FTZ12S; FTZ14S |
| NEW | FLTX12/14<br>FLTZ12S/14S          | 560634 | 102.4      | 8                  | 480     | 150               | 87  | 93  | ⊕ ⊖      | 4                    | 8   | FTX7A-BS; FTX9-BS; FT12A-BS;<br>FTX12-BS; FTX14-BS; FTZ12S; FTZ14S         |
|     | FLT12B/14B                        | 560626 | 76.8       | 6                  | 360     | 150               | 69  | 130 | ⊕ ⊖      | 3                    | 6   | FT12B-4; FT12B-BS; FT14B-4; FT14B-BS                                       |
|     | FLTX20H                           | 560628 | 153.6      | 12                 | 720     | 175               | 87  | 155 | ⊕ ⊖      | 6                    | 12  | FTX20-BS                                                                   |
|     | FLTX20HL                          | 560627 | 153.6      | 12                 | 720     | 175               | 87  | 155 | ⊖ ⊕      | 6                    | 12  | FB16CL-B; FTX20L-BS; FTX20HL-BS; FHD20HL-BS                                |
|     | FLTX30HL                          | 560629 | 230,4      | 18                 | 900     | 168               | 127 | 177 | ⊖ ⊕      | 6                    | 18  | 53030; FB30L-B; FB30CL-B;<br>F60-N30L-A; FIX30L-BS; FHD30L-BS              |

\*This model does not have an integrated BMS / \*\*This model does not include an LCD battery tester

# GEL RANGE

Ready to use & maintenance free

The Gel battery range is designed to offer maximum performance and safety! Ready to use, the GEL battery will not require any acid handling, initial preparation or maintenance. Non-spillable design (VRLA) linked to its high performance make it the ideal battery for all powersports.

## FEATURES

- ✓ Ready to use - Factory activated
- ✓ 100% maintenance free
- ✓ Easy to install
- ✓ Non-spillable: easy to ship
- ✓ Multi-positional fitment
- ✓ Suitable for cold weather
- ✓ No acid handling
- ✓ Increased life time



## COMPATIBLE CHARGERS

- ✓ Fulload 1000 - battery capacity up to 20Ah
- ✓ Fulload F4 - battery capacity up to 80Ah
- ✓ Fulbank 2000 - battery capacity up to 40Ah

**NON-SPILLABLE**



| Designation             | P/N    | Voltage (V) | Capacity Ah (10h) | Capacity Ah (20h) | CCA (A) | Dimensions (±2mm) |    |     | Polarity | Terminal 3D |
|-------------------------|--------|-------------|-------------------|-------------------|---------|-------------------|----|-----|----------|-------------|
|                         |        |             |                   |                   |         | L                 | W  | H   |          |             |
| 6N4-2A/A-4              | 550959 | 6           | 4                 | 4.2               | 25      | 71                | 71 | 93  | +        | -           |
| 6N6-3B/B-1              | 550960 | 6           | 6                 | 6.3               | 50      | 95                | 55 | 117 | +        | +           |
| B49-6                   | 550961 | 6           | 10                | 10.5              | 80      | 91                | 83 | 159 | +        | +           |
| B38-6A                  | 550962 | 6           | 13                | 13.7              | 105     | 119               | 83 | 161 | +        | +           |
| 6N11A-1B/3A             | 550957 | 6           | 11                | 11.6              | 90      | 121               | 58 | 130 | +        | +           |
| 6N11A-4A                | 550958 | 6           | 11                | 11.6              | 90      | 121               | 58 | 130 | +        | +           |
| 12N5.5-3B               | 550980 | 12          | 5.5               | 5.8               | 70      | 135               | 60 | 130 | +        | +           |
| 12N5.5-4A/4B            | 550981 | 12          | 5.5               | 5.8               | 70      | 135               | 60 | 130 | +        | +           |
| FB3L-A/B                | 550842 | 12          | 3                 | 3.2               | 35      | 98                | 56 | 110 | +        | +           |
| FB4L-B                  | 550916 | 12          | 5                 | 5.3               | 50      | 120               | 70 | 92  | +        | +           |
| FB5L-B                  | 550991 | 12          | 5                 | 5.3               | 65      | 120               | 60 | 130 | +        | +           |
| FB7-A                   | 550992 | 12          | 8                 | 8.4               | 120     | 135               | 75 | 133 | +        | +           |
| FB7C-A                  | 550989 | 12          | 8                 | 8.4               | 85      | 129               | 89 | 114 | +        | +           |
| FB7L-B/B2               | 550995 | 12          | 8                 | 8.4               | 100     | 136               | 76 | 130 | +        | +           |
| FB9-B (12N9-4B-1)       | 550925 | 12          | 9                 | 9.5               | 115     | 135               | 75 | 139 | +        | +           |
| FB10L-A2/B2             | 550956 | 12          | 11                | 11.6              | 120     | 133               | 90 | 145 | +        | +           |
| FB12A-A/B (12N12A-4A-1) | 550947 | 12          | 12                | 12.6              | 155     | 134               | 80 | 161 | +        | +           |
| FB12AL-A2               | 550926 | 12          | 12                | 12.6              | 150     | 134               | 80 | 161 | +        | +           |
| FB14A-A2                | 550971 | 12          | 14                | 14.7              | 200     | 134               | 88 | 176 | +        | +           |
| FB16AL-A2               | 550948 | 12          | 16                | 16.8              | 210     | 205               | 70 | 162 | +        | +           |



| Designation                            | P/N    | Voltage (V) | Capacity Ah (10h) | Capacity Ah (20h) | CCA (A) | Dimensions (±2mm) |     |     | Polarity                                                                              | Terminal 3D                                                                           |
|----------------------------------------|--------|-------------|-------------------|-------------------|---------|-------------------|-----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                        |        |             |                   |                   |         | L                 | W   | H   |                                                                                       |                                                                                       |
| FB16CL-B                               | 550979 | 12          | 19                | 20                | 240     | 175               | 100 | 175 |    |    |
| FT4B-BS                                | 550949 | 12          | 2.3               | 2.4               | 40      | 113               | 38  | 85  |    |    |
| FTR4A-BS                               | 550950 | 12          | 2.3               | 2.4               | 45      | 113               | 48  | 85  |    |    |
| FTX4L-BS/FTZ5S                         | 550671 | 12          | 5                 | 5.3               | 70      | 113               | 70  | 85  |    |    |
| FTX5L-BS/FTZ6S                         | 550919 | 12          | 5                 | 5.3               | 90      | 113               | 70  | 105 |    |    |
| FTX6.5L-BS                             | 550963 | 12          | 6.5               | 6.8               | 85      | 147               | 73  | 112 |    |    |
| FTX7L-BS                               | 550920 | 12          | 6                 | 6.3               | 100     | 113               | 70  | 130 |    |    |
| FTX7A-BS                               | 550915 | 12          | 6                 | 6.3               | 90      | 150               | 87  | 93  |    |    |
| FTX9-BS                                | 550921 | 12          | 8                 | 8.4               | 135     | 150               | 87  | 105 |    |    |
| FT12A-BS                               | 550679 | 12          | 10                | 10.5              | 175     | 150               | 88  | 105 |    |    |
| FTX12-BS                               | 550922 | 12          | 10                | 10.5              | 180     | 150               | 87  | 130 |    |    |
| FTX14-BS                               | 550923 | 12          | 12                | 12.6              | 200     | 150               | 87  | 145 |    |    |
| FTX14L-BS                              | 550990 | 12          | 12                | 12.6              | 200     | 150               | 87  | 145 |    |    |
| FTX14AH-BS/FB14-A2/B2 (12N14-4A)       | 550946 | 12          | 14                | 14.7              | 210     | 135               | 90  | 167 |    |    |
| FTX14AHL-BS/FB14L-A2/B2 (12N14-3A)     | 550927 | 12          | 14                | 14.7              | 210     | 135               | 90  | 167 |    |    |
| FTX16                                  | 550763 | 12          | 14                | 14.7              | 230     | 150               | 87  | 161 |    |    |
| FTX20-BS                               | 550993 | 12          | 18                | 18.9              | 310     | 175               | 87  | 155 |    |    |
| FTX20A-BS                              | 550994 | 12          | 18                | 18.9              | 270     | 150               | 87  | 161 |    |    |
| FTX20HL-BS                             | 550924 | 12          | 18                | 18.9              | 310     | 175               | 87  | 155 |    |    |
| FTX24HL-BS/F50-N18L-A/A2/A3 (12N18-3A) | 550982 | 12          | 21                | 22.1              | 350     | 205               | 87  | 162 |    |    |
| FIX30L-BS                              | 550943 | 12          | 30                | 31.6              | 400     | 165               | 125 | 175 |   |   |
| FTZ7S                                  | 550635 | 12          | 6                 | 6.3               | 130     | 113               | 70  | 105 |  |  |
| FT7B-4                                 | 550641 | 12          | 6.5               | 6.8               | 110     | 150               | 65  | 93  |  |  |
| FTZ7V                                  | 550998 | 12          | 6.5               | 6.8               | 105     | 113               | 70  | 121 |  |  |
| FTZ8V                                  | 550918 | 12          | 7                 | 7.4               | 120     | 113               | 70  | 130 |  |  |
| FT9B-4                                 | 550642 | 12          | 8                 | 8.4               | 120     | 150               | 68  | 105 |  |  |
| FTZ10S                                 | 550636 | 12          | 8.6               | 9.1               | 190     | 150               | 88  | 93  |  |  |
| FTZ12S                                 | 550637 | 12          | 11                | 11.6              | 210     | 150               | 88  | 110 |  |  |
| FT12-10Z                               | 550999 | 12          | 10                | 10.5              | 180     | 194               | 59  | 112 |  |  |
| FT12B-4                                | 550643 | 12          | 10                | 10.5              | 210     | 150               | 69  | 130 |  |  |
| FTZ14S                                 | 550638 | 12          | 11.2              | 11.8              | 230     | 150               | 88  | 110 |  |  |
| FT14B-4                                | 550644 | 12          | 12                | 12.6              | 210     | 150               | 69  | 145 |  |  |
| 53030 (F60-N30L-A)                     | 550945 | 12          | 30                | 31.6              | 325     | 184               | 124 | 170 |  |  |
| 53034 (F60-N30-A)                      | 550843 | 12          | 30                | 31.6              | 325     | 184               | 124 | 170 |  |  |



# GEL FitHD RANGE

High capacity reinforced battery

The Gel FitHD range are high capacity batteries designed for Heady Duty applications. With specific terminals and reinforced battery case, these batteries offer a maximum vibration resistance and higher starting power.

## FEATURES

- ✓ Ready to use - Factory activated
- ✓ 100% maintenance free
- ✓ Easy to install
- ✓ Specific HD terminals\*
- ✓ Reinforced battery case
- ✓ Non-spillable: easy to ship
- ✓ Multi-positional fitment
- ✓ Suitable for cold weather
- ✓ No acid handling
- ✓ Increased life time

*\*Only for FHD battery models*



## COMPATIBLE CHARGERS

- ✓ Fulload 1000 - battery capacity up to 20Ah
- ✓ Fulload F4 - battery capacity up to 80Ah
- ✓ Fulbank 2000 - battery capacity up to 40Ah



| Designation   | P/N    | Voltage (V) | Capacity Ah (10h) | Capacity Ah (20h) | CCA (A) | Dimensions (±2mm) |     |     | Polarity | Terminal 3D |
|---------------|--------|-------------|-------------------|-------------------|---------|-------------------|-----|-----|----------|-------------|
|               |        |             |                   |                   |         | L                 | W   | H   |          |             |
| NH12-20 (BMW) | 550917 | 12          | 20                | 21.1              | 250     | 186               | 82  | 171 |          |             |
| FHD14HL-BS    | 550880 | 12          | 14                | 14.7              | 220     | 150               | 87  | 145 |          |             |
| FHD20HL-BS    | 550881 | 12          | 20                | 21.1              | 310     | 175               | 87  | 155 |          |             |
| FHD30HL-BS    | 550882 | 12          | 30                | 31.6              | 430     | 165               | 130 | 175 |          |             |

Feel the Power!





# AUXILIARY RANGE

High cycling capability

The Auxiliary battery range is specifically designed for Start-Stop automotive application. With non-spillable design and maintenance free, these AGM batteries provide enhanced cycling capability and the power required to run vehicle's on board electrics and computer management system.

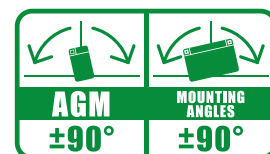
## FEATURES

- ✓ AGM technology
- ✓ Ready to use - Factory activated
- ✓ 100% maintenance free
- ✓ Easy to install
- ✓ Non-spillable
- ✓ Maximum safety
- ✓ Increased lifetime: cycle resistance x3
- ✓ Low self-discharge



## COMPATIBLE CHARGERS

- ✓ Fulload 1000 - battery capacity up to 20Ah
- ✓ Fulload F4 - battery capacity up to 80Ah
- ✓ Fulbank 2000 - battery capacity up to 40Ah



| Designation | P/N    | Voltage (V) | Capacity Ah (10h) | Capacity Ah (20h) | CCA (A) | Dimensions (±2mm) |     |     | Polarity | Terminal 3D |
|-------------|--------|-------------|-------------------|-------------------|---------|-------------------|-----|-----|----------|-------------|
|             |        |             |                   |                   |         | L                 | W   | H   |          |             |
| AUX9        | 550983 | 12          | 8                 | 8.4               | 135     | 150               | 87  | 105 | +        |             |
| AUX12       | 550984 | 12          | 10                | 10.5              | 180     | 150               | 87  | 130 | +        |             |
| AUX14       | 550985 | 12          | 12                | 12.6              | 200     | 150               | 87  | 145 | +        |             |
| AUX14J      | 550986 | 12          | 12                | 12.6              | 200     | 150               | 130 | 145 | +        |             |



**Feel the Power!**

# MF RANGE

Maintenance free & easy to store

The MF battery range is designed to offer more comfort and performance. Maintenance free, the MF battery is delivered with a separate acid pack and needs to be filled and activated before the first use. Its AGM (Absorbed Glass Mat) design allows it to become sealed once activated and also improves the lifespan and resistance of the battery to harsh conditions.

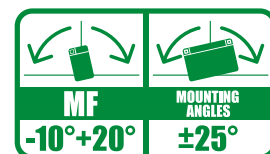
## FEATURES

- ✓ AGM technology
- ✓ Delivered with acid pack
- ✓ Need to be filled before first use
- ✓ No maintenance once activated
- ✓ Upright installation only
- ✓ Reduction of plate sulfation
- ✓ Suitable for cold weather
- ✓ Unlimited shelf life



## COMPATIBLE CHARGERS

- ✓ Fulload 1000 - battery capacity up to 20Ah
- ✓ Fulload F4 - battery capacity up to 80Ah
- ✓ Fulbank 2000 - battery capacity up to 40Ah





| Designation       | P/N    | Voltage (V) | Capacity Ah (10h) | Capacity Ah (20h) | CCA (A) | Dimensions (±2mm) |     |     | Polarity                                                                              | Terminal 3D                                                                           |
|-------------------|--------|-------------|-------------------|-------------------|---------|-------------------|-----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                   |        |             |                   |                   |         | L                 | W   | H   |                                                                                       |                                                                                       |
| FT4B-BS           | 550625 | 12          | 2.3               | 2.4               | 40      | 113               | 38  | 85  |    |    |
| FTR4A-BS          | 550624 | 12          | 2.3               | 2.4               | 45      | 113               | 48  | 85  |    |    |
| FTX4L-BS/FTZ5S-BS | 550617 | 12          | 4                 | 4.2               | 50      | 113               | 70  | 85  |    |    |
| FTX5L-BS          | 550618 | 12          | 4                 | 4.2               | 80      | 113               | 70  | 105 |    |    |
| FTX7L-BS          | 550620 | 12          | 6                 | 6.3               | 100     | 113               | 70  | 130 |    |    |
| FTX7A-BS          | 550619 | 12          | 6                 | 6.3               | 105     | 150               | 87  | 93  |    |    |
| FT9A-BS           | 550748 | 12          | 9                 | 9.5               | 115     | 135               | 75  | 139 |    |    |
| FTX9-BS           | 550621 | 12          | 8                 | 8.4               | 135     | 150               | 87  | 105 |    |    |
| FT12A-BS          | 550602 | 12          | 10                | 10.5              | 175     | 150               | 88  | 105 |    |    |
| FTX12-BS          | 550603 | 12          | 10                | 10.5              | 180     | 150               | 87  | 130 |    |    |
| FTX14-BS          | 550604 | 12          | 12                | 12.6              | 200     | 150               | 87  | 145 |    |    |
| FTX14L-BS         | 550605 | 12          | 12                | 12.6              | 200     | 150               | 87  | 145 |    |    |
| FTX14AHL-BS       | 550607 | 12          | 12                | 12.6              | 210     | 135               | 90  | 167 |    |    |
| FTX14AH-BS        | 550606 | 12          | 12                | 12.6              | 210     | 135               | 90  | 167 |    |    |
| FTX16-BS          | 550609 | 12          | 14                | 14.7              | 230     | 150               | 87  | 161 |    |    |
| FTX20-BS          | 550611 | 12          | 18                | 18.9              | 270     | 175               | 87  | 155 |    |    |
| FTX20A-BS         | 550808 | 12          | 18                | 18.9              | 270     | 150               | 87  | 161 |    |    |
| FTX20L-BS         | 550610 | 12          | 18                | 18.9              | 270     | 175               | 87  | 155 |    |    |
| FTX24HL-BS        | 550630 | 12          | 21                | 22.1              | 350     | 205               | 87  | 162 |    |    |
| FIX30L-BS         | 550631 | 12          | 30                | 31.6              | 400     | 165               | 125 | 175 |  |  |



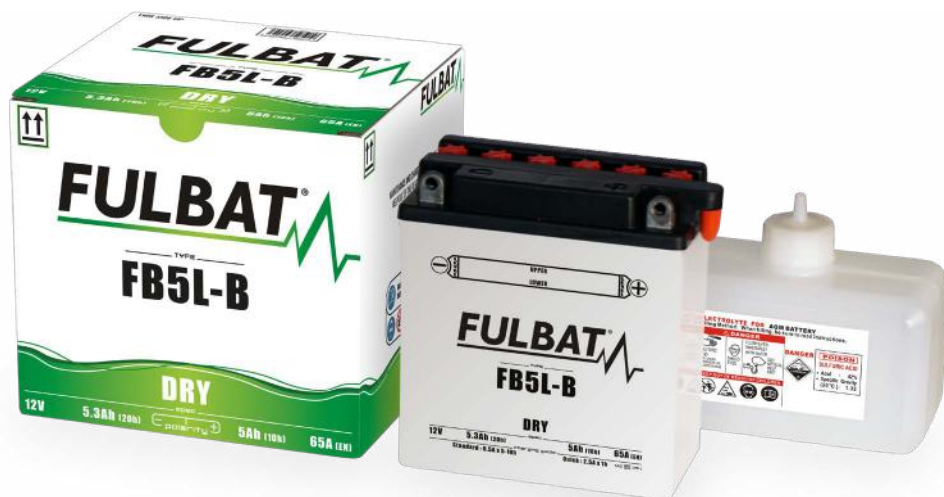
# DRY RANGE

Easy to store

The Dry battery range offers an incomparable choice of 6V and 12V models. Delivered with an acid pack, the DRY battery must be activated before the first use and must be checked periodically. DRY construction, no maintenance is necessary during a long period of storage.

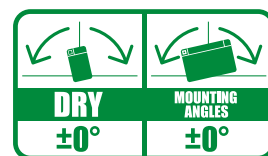
## FEATURES

- ✓ DRY charged construction
- ✓ Activation before first use
- ✓ Periodically maintenance & refilled if necessary
- ✓ Upright installation only
- ✓ 6V & 12V batteries
- ✓ Regular life duration
- ✓ Unlimited shelf life



## COMPATIBLE CHARGERS

- ✓ Fulload 1000 - battery capacity up to 20Ah
- ✓ Fulload F4 - battery capacity up to 80Ah
- ✓ Fulbank 2000 - battery capacity up to 40Ah



| Designation | P/N    | Voltage (V) | Capacity Ah (10h) | Capacity Ah (20h) | CCA (A) | Dimensions (±2mm) |    |     | Polarity | Terminal 3D |
|-------------|--------|-------------|-------------------|-------------------|---------|-------------------|----|-----|----------|-------------|
|             |        |             |                   |                   |         | L                 | W  | H   |          |             |
| 6N4-2A      | 550891 | 6           | 4                 | 4.2               | 25      | 71                | 71 | 96  |          | -           |
| 6N4-2A-4    | 550510 | 6           | 4                 | 4.2               | 25      | 71                | 71 | 96  |          | -           |
| 6N4B-2A     | 550514 | 6           | 4                 | 4.2               | 35      | 102               | 48 | 96  |          | -           |
| 6N6-3B      | 550518 | 6           | 6                 | 6.3               | 50      | 99                | 57 | 111 |          |             |
| 6N6-3B-1    | 550519 | 6           | 6                 | 6.3               | 50      | 99                | 57 | 111 |          |             |
| 6N11A-1B    | 550501 | 6           | 11                | 11.6              | 90      | 122               | 62 | 131 |          |             |
| 6N11A-3A    | 550894 | 6           | 11                | 11.6              | 90      | 122               | 62 | 131 |          |             |
| B49-6       | 550893 | 6           | 8                 | 8.4               | 80      | 91                | 83 | 160 |          |             |
| B38-6A      | 550896 | 6           | 13                | 13.7              | 105     | 119               | 83 | 161 |          |             |
| 12N5.5-3B   | 550529 | 12          | 5.5               | 5.8               | 55      | 135               | 60 | 130 |          |             |
| 12N5.5-4A   | 550530 | 12          | 5.5               | 5.8               | 55      | 135               | 60 | 130 |          |             |
| FB3L-A      | 550589 | 12          | 3                 | 3.2               | 32      | 98                | 56 | 110 |          |             |
| FB3L-B      | 550588 | 12          | 3                 | 3.2               | 32      | 98                | 56 | 110 |          |             |



| Designation           | P/N    | Voltage (V) | Capacity Ah (10h) | Capacity Ah (20h) | CCA (A) | Dimensions (±2mm) |     |     | Polarity                                                                              | Terminal 3D                                                                           |
|-----------------------|--------|-------------|-------------------|-------------------|---------|-------------------|-----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                       |        |             |                   |                   |         | L                 | W   | H   |                                                                                       |                                                                                       |
| FB4L-B                | 550590 | 12          | 4                 | 4.2               | 56      | 120               | 70  | 92  |    |    |
| FB5L-B (12N5-3B)      | 550591 | 12          | 5                 | 5.3               | 65      | 120               | 60  | 130 |    |    |
| FB7L-B2 (12N7-3B)     | 550595 | 12          | 8                 | 8.4               | 85      | 135               | 75  | 133 |    |    |
| FB7-A (12N7-4A)       | 550592 | 12          | 8                 | 8.4               | 105     | 135               | 75  | 133 |    |    |
| FB7C-A                | 550593 | 12          | 8                 | 8.4               | 85      | 130               | 90  | 114 |    |    |
| FB9-B (12N9-4B-1)     | 550596 | 12          | 9                 | 9.5               | 115     | 135               | 75  | 139 |    |    |
| FB9L-B (12N9-3B)      | 550599 | 12          | 9                 | 9.5               | 115     | 135               | 75  | 139 |    |    |
| FB10L-A2              | 550556 | 12          | 11                | 11.6              | 130     | 135               | 90  | 145 |    |    |
| FB10L-B2              | 550557 | 12          | 11                | 11.6              | 130     | 135               | 90  | 145 |    |    |
| FB10L-BP (FB10L-B)    | 550558 | 12          | 11                | 11.6              | 165     | 135               | 90  | 145 |    |    |
| FB12A-A (12N12A-4A-1) | 550561 | 12          | 12                | 12.6              | 155     | 134               | 80  | 160 |    |    |
| FB12AL-A/A2           | 550564 | 12          | 12                | 12.6              | 155     | 134               | 80  | 160 |    |    |
| FB12A-B               | 550562 | 12          | 12                | 12.6              | 155     | 134               | 80  | 160 |    |    |
| FB12C-A               | 550566 | 12          | 12                | 12.6              | 155     | 134               | 80  | 175 |    |    |
| FB14-A2 (12N14-4A)    | 550567 | 12          | 14                | 14.7              | 175     | 134               | 89  | 166 |    |    |
| FB14L-A2 (12N14-3A)   | 550569 | 12          | 14                | 14.7              | 175     | 134               | 89  | 166 |    |    |
| FB14L-B2              | 550570 | 12          | 14                | 14.7              | 175     | 134               | 89  | 166 |    |    |
| FB14A-A2              | 550571 | 12          | 14                | 14.7              | 175     | 134               | 89  | 176 |    |    |
| FB16B-A1              | 550897 | 12          | 16                | 16.8              | 210     | 160               | 90  | 161 |   |   |
| FB16AL-A2             | 550576 | 12          | 16                | 16.8              | 210     | 207               | 71  | 164 |  |  |
| FB16CL-B              | 550579 | 12          | 19                | 20.0              | 240     | 175               | 100 | 175 |  |  |
| FB30L-B               | 550552 | 12          | 30                | 31.6              | 300     | 165               | 130 | 176 |  |  |
| FB30CL-B              | 550553 | 12          | 30                | 31.6              | 300     | 165               | 130 | 192 |  |  |
| F50-N18L-A /12N18-3A  | 550547 | 12          | 20                | 21.1              | 260     | 205               | 90  | 162 |  |  |
| F50-N18L-A3           | 550899 | 12          | 20                | 21.1              | 260     | 205               | 90  | 162 |  |  |
| 51814                 | 550545 | 12          | -                 | 19                | 210     | 186               | 82  | 171 |  |  |
| 51913                 | 550542 | 12          | -                 | 19                | 210     | 186               | 82  | 171 |  |  |
| 53030 (F60-N30L-A)    | 550544 | 12          | -                 | 30                | 300     | 186               | 130 | 171 |  |  |
| 53034 (F60-N30-A)     | 550546 | 12          | -                 | 30                | 300     | 186               | 130 | 171 |  |  |



# UPGRADE CROSS REFERENCE CHART

| DRY                                 | MF             | GEL                           | LITHIUM                    |
|-------------------------------------|----------------|-------------------------------|----------------------------|
| 6N4-2A - 6N4-2A-4                   |                | 6N4-2A/A-4                    |                            |
| 6N6-3B - 6N6-3B-1                   |                | 6N6-3B/B-1                    |                            |
| B49-6                               |                | B49-6                         |                            |
| B38-6A                              |                | B38-6A                        |                            |
| 6N11A-1B - 6N11A-3A                 |                | 6N11A-1B/3A                   |                            |
| 12N5.5-3B                           |                | 12N5.5-3B                     |                            |
| 12N5.5-4A                           |                | 12N5.5-4A/4B                  |                            |
| FB3L-A - FB3L-B                     |                | FB3L-A/B                      |                            |
| FB4L-B                              |                | FB4L-B                        | FLT4L/5L/7L - FLT25S/6S/7S |
| FB5L-B - 12N5-3B                    |                | FB5L-B GEL                    |                            |
| 12N7-4A - FB7-A                     |                | FB7-A                         |                            |
| FB7C-A                              |                | FB7C-A                        |                            |
| FB7L-B - FB7L-B2 - 12N7-3B          |                | FB7L-B/B2                     | FLT4L/5L/7L - FLT25S/6S/7S |
| FB9-B - 12N9-4B1                    | FT9A-B5        | FB9-B                         |                            |
| FB10L-A2 - FB10L-B2 - 12N10-3A/B    |                | FB10L-A2/B2                   |                            |
| FB12AL-A/A2                         |                | FB12AL-A2                     |                            |
| FB12A-A - FB12A-B - 12N12A-4A-1     |                | FB12A-A/B                     |                            |
| FB14A-A1 - FB14A-A2                 |                | FB14A-A2                      |                            |
| FB16AL-A2                           |                | FB16AL-A2                     |                            |
| FB16CL-B                            |                | FB16CL-B                      | FLT20HL                    |
|                                     | FT4B-B5        | FT4B-B5                       |                            |
|                                     | FTR4A-B5       | FTR4A-B5                      |                            |
|                                     | FTX4L-B5/FTZ5S | FTX4L-B5/FTZ5S                | FLT4L/5L/7L - FLT25S/6S/7S |
|                                     | FTX5L-B5       | FTX5L-B5/FTZ6S                | FLT4L/5L/7L - FLT25S/6S/7S |
|                                     | FTX7A-B5       | FTX7A-B5                      | FLT7A/9 - FLT210S          |
|                                     | FTX7L-B5       | FTX7L-B5                      | FLT4L/5L/7L - FLT25S/6S/7S |
|                                     | FTX9-B5        | FTX9-B5                       | FLT7A/9 - FLT210S          |
|                                     | FT12A-B5       | FT12A-B5                      | FLT12/14 - FLT212S/14S     |
|                                     | FTX12-B5       | FTX12-B5                      | FLT12/14 - FLT212S/14S     |
|                                     | FTX14-B5       | FTX14-B5                      | FLT12/14 - FLT212S/14S     |
|                                     | FTX14L-B5      | FTX14L-B5 GEL - FHD14HL-B5    |                            |
| FB14-A2 - FB14-B2 - 12N14-4A        | FTX14AH-B5     | FTX14AH-B5 / FB14-A2          |                            |
| FB14L-A2 - FB14L-B2 - 12N14-3A      | FTX14AHL-B5    | FTX14AHL-B5 / FB14L-A2        |                            |
|                                     | FTX16-B5       | FTX16                         |                            |
| FB16-B                              | FTX20-B5       | FTX20-B5                      | FLT20H                     |
|                                     | FTX20A-B5      | FTX20A-B5                     |                            |
| FB16L-B - FB18L-A                   | FTX20L-B5      | FTX20HL-B5 GEL - FHD20HL-B5   | FLT20HL                    |
| 12N18-3A - F50-N18L-A - F50-N18L-A3 | FTX24HL-B5     | FTX24HL-B5 / F50-N18L-A/A2/A3 |                            |
| FB30L-B                             | FIX30L-B5      | FIX30L-B5 GEL - FHD30HL-B5    | FLT30HL                    |
|                                     |                | FTZ7V                         | FLT4L/5L/7L - FLT25S/6S/7S |
|                                     |                | FTZ7S GEL - FTZ8V             | FLT4L/5L/7L - FLT25S/6S/7S |
|                                     |                | FT7B-4                        | FLT7B/9B                   |
|                                     |                | FT9B-4                        | FLT7B/9B                   |
|                                     |                | FTZ10S                        | FLT7A/9 - FLT210S          |
|                                     |                | FTZ12S                        | FLT12/14 - FLT212S/14S     |
|                                     |                | FT12B-4                       | FLT12B/14B                 |
|                                     |                | FTZ14S                        | FLT12/14 - FLT212S/14S     |
|                                     |                | FT14B-4                       | FLT12B/14B                 |
| 51814 - 51913                       |                | NH12-20                       |                            |
| F60-N30L-A - 53030                  |                | 53030                         | FLT30HL                    |
| F60-N30-A - 53034                   |                | 53034                         |                            |



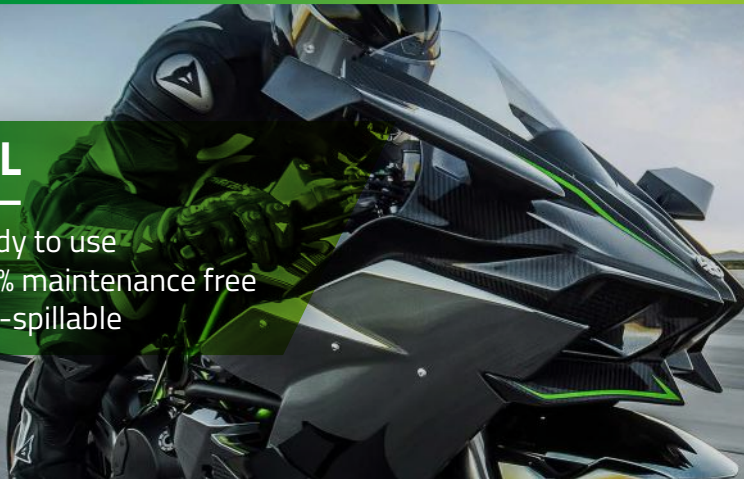
## LITHIUM

Ready to use  
High CCA performance  
Ultra lightweight



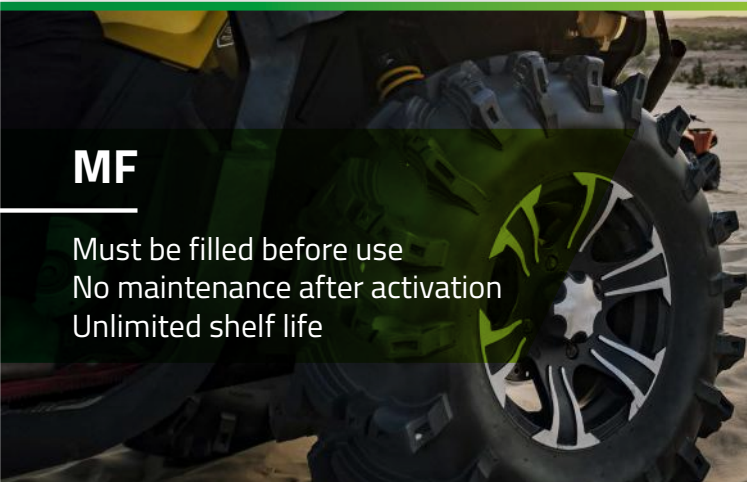
## GEL

Ready to use  
100% maintenance free  
Non-spillable



## MF

Must be filled before use  
No maintenance after activation  
Unlimited shelf life



## DRY

Activation before first use  
Periodic maintenance required  
Unlimited shelf life





# CHARGERS

Whether it is to charge or maintain lead-acid or lithium batteries (LiFePO<sub>4</sub>), FULBAT chargers will be able to answer all your needs, from the smallest battery to the largest capacity. Designed with different charging stages, our automatic smart chargers will guarantee optimum charging efficiency and safety.

## FULLLOAD 1000 (P/N: 750514)

**Battery compatibility:** Lead-acid & Lithium (LiFePO<sub>4</sub>)  
**Voltage:** 6V/12V  
**Charging rate:** 1A  
**Battery capacity:** Up to 20Ah (maintains all sizes)  
**Stages:** 3

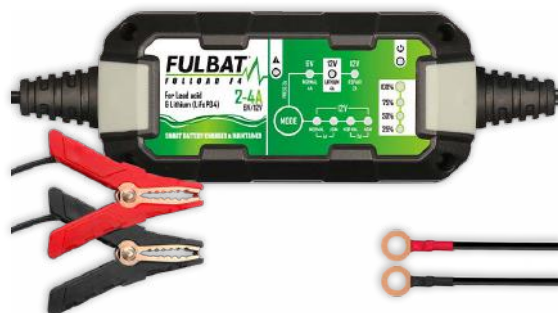
- Charges and maintains 6V/12V lead-acid batteries (GEL, AGM, MF, DRY, Ca/Ca, WET) and 12V LiFePO<sub>4</sub> batteries
- 4 charge modes
- Easy to set up & use: connect, select a charge mode and forget
- Easy to read LED display
- Full protected against short circuit, wrong connections, overcharge and overheat
- Delivered with: 1 clamps set and 1 eyelet terminals set



## FULLLOAD F4 (P/N: 750515)

**Battery compatibility:** Lead-acid & Lithium (LiFePO<sub>4</sub>)  
**Voltage:** 6V/12V  
**Charging rate:** 2-4A  
**Battery capacity:** Up to 80Ah (maintains all sizes)  
**Stages:** 8

- Charges and maintains 6V/12V lead-acid batteries (GEL, AGM, MF, DRY, Ca/Ca, WET) and 12V LiFePO<sub>4</sub> batteries
- 7 charge modes including 12V repair mode
- Easy to set up & use: connect, select a charge mode and forget
- Easy to read LED display
- Full protected against short circuit, wrong connections, overcharge and overheat
- Delivered with: 1 clamps set and 1 eyelet terminals set





# CHARGERS



## FULBANK 2000 (P/N: 750547)

**Battery compatibility:** Lead-acid & Lithium (LiFePO4)  
**Voltage:** 6V/12V  
**Charging rate:** 3X2A  
**Battery capacity:** Up to 40Ah (120Ah in maintenance)  
**Stages:** 4

- Charges & maintains 3 batteries with different voltage and technologies at once
- For all batteries: GEL, AGM, MF, DRY, Ca/Ca & LiFePO4
- Easy to read LED display
- Full protected against short circuit, wrong connections, overcharge and overheat
- Splash & dust proof (IP65)
- Delivered with: 3 clamps and 3 fused connection set



## ASSEMBLY PARTS (P/N: 750518)

**Box content:**  
 2x black rails  
 12x screws  
 12x bolts fastening

- To mount up 2 Fulbank 2000 chargers on to battery display
- Up to 6 batteries charged at once
- Ideal to create a small charging station



# BOOSTER

These accessories are ideal for the maintenance of all our ranges of batteries. Whatever your type of application (motorcycle, scooter, quad, jet-ski, lawn mower, etc.), you will always find the FULBAT accessory to maximize your battery's performance.

## FULBOOST (P/N: 750553)

**Function:** Booster, powerbank & flashlight

**Capacity:** 4Ah

**Start current:** 800A

**Peak current:** 1600A

- Compact & powerful lithium booster rated at 1600A
- For vehicles equipped with a 12V Lead-acid battery
- Designed for gas engines up to 7.0L and diesel up to 6.0L
- Ultra-safe thanks to smart cables technology : spark-proof, short-circuit & reverse polarity protection
- Charger for all types of USB devices
- Ultra-bright 150 lumens LED flashlight with 3 modes: constant, SOS, flash



3 IN ONE



### BOOSTER

For 12V vehicles



### POWER BANK

For all electrical devices



### TORCH

3 light modes





# TESTERS & ACCESSORIES



## FULTEST 1 (P/N: 750502)

**Function:** Battery & alternator tester

- For 12V lead-acid batteries only
- Test the condition of the battery and alternator
- Control the right starting ability of the vehicle
- The ideal tool to verify the state of charge of the battery



## FULTEST 2 (P/N: 750521)

**Function:** Battery & alternator tester

- For all 12V vehicle and motorcycles batteries (lithium & lead-acid)
- 3 battery tests: cold cranking amps, voltage, internal resistance
- Alternator and cranking system test
- Easy to read thanks to the large LCD screen



## FULCONNECT INDICATOR (P/N: 750516)

**Function:** Battery tester

**Chargers compatibility:** Fulload 1000 / Fulload F4 / Fulbank 2000

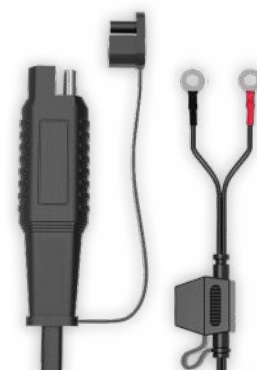
- For 12V lead-acid batteries only
- Ideal solution if the battery is difficult to access
- To check the state of charge of the battery with its 3 integrated LEDs: green, orange, red
- Wire length: 500mm
- M8 eyelet terminal



## FULCONNECT (P/N: 750507)

**Chargers compatibility:** Fulload 1000 / Fulload F4 / Fulbank 2000

- For 12V lead-acid & lithium batteries
- Ideal solution if the battery is difficult to access
- Wire length: 600mm
- M6 eyelet terminal



# FULBAT<sup>®</sup>

## LAWN & GARDEN



## BATTERY RANGE

SLA | Ca/Ca | DRY | VRLA | ROBOT





# INTRODUCTION



No matter what type of vehicle you have or how you use it, our wide range of starter batteries has been developed to satisfy all current market requirements.

Composed of a comprehensive line of batteries, FULBAT Starter Battery offers different technologies: SLA, Ca/Ca, DRY, VRLA & ROBOT.

FULBAT batteries will provide multiple and varied benefits: high starting performance, light weight, ready to use, maintenance free, vibration resistance and many others, whether for leisure or professional use.

From 1<sup>st</sup> February 2021, a new EU regulation for the sale of acid for batteries came into force. On that date, the sale of electrolyte for batteries (sulfuric acid), has been prohibited to end users (non-professionals), and only professionals are now entitled to acquire batteries with an electrolyte pack.

As a battery specialist, FULBAT maintains all its product ranges and offers the widest ready to use battery range.

## APPLICATIONS

FULBAT Starter Battery covers the wide majority of lawn & garden applications.

### LAWN & GARDEN



### ROBOT





# SLA RANGE

Ready to use & non-spillable

SLA battery range is designed to offer maximum performance and safety! Ready to use, the Sealed Lead Acid (SLA) battery will not require any acid handling, initial preparation or maintenance. Its non-spillable design linked to its high performance make it the ideal battery for all ride-on mowers.

## FEATURES

- ✓ AGM technology (factory activated)
- ✓ Ready to use
- ✓ 100% maintenance free
- ✓ Non-spillable: easy to ship
- ✓ Higher cycle life
- ✓ Ultra safe & highly vibration resistant
- ✓ Minimized plate sulfation
- ✓ Suitable for cold weather



## COMPATIBLE CHARGERS

- ✓ Fulload 1000
- ✓ Fulload F4
- ✓ Fulbank 2000

**NON-SPILLABLE**



| Designation           | P/N    | Voltage (V) | Capacity Ah (10h) | Capacity Ah (20h) | CCA (A) | Dimensions (±2mm) |     |     | Polarity | Terminal 3D |
|-----------------------|--------|-------------|-------------------|-------------------|---------|-------------------|-----|-----|----------|-------------|
|                       |        |             |                   |                   |         | L                 | W   | H   |          |             |
| U1-9 SLA (12N24-4A)   | 550901 | 12          | -                 | 28                | 300     | 195               | 125 | 176 | +        |             |
| U1R-9 SLA (12N24-3A)  | 550902 | 12          | -                 | 28                | 300     | 195               | 125 | 176 | -        |             |
| U1-12 SLA (12N24-4A)  | 550903 | 12          | -                 | 32                | 400     | 195               | 125 | 176 | +        |             |
| U1R-12 SLA (12N24-3A) | 550904 | 12          | -                 | 32                | 400     | 195               | 125 | 176 | -        |             |
| SLA12-18              | 550633 | 12          | 18                | 18.9              | 150     | 182               | 77  | 168 | -        |             |
| SLA12-20              | 550879 | 12          | 20                | 21.1              | 180     | 182               | 77  | 168 | -        |             |
| SLA12-22              | 550907 | 12          | 22                | 23.1              | 210     | 182               | 77  | 168 | -        |             |
| FTX16                 | 550763 | 12          | 14                | 14.7              | 230     | 150               | 87  | 161 | +        |             |
| FTZ75                 | 550635 | 12          | 6                 | 6.3               | 130     | 113               | 70  | 105 | -        |             |
| FB14L-A2 ( 12N14-3A)  | 550927 | 12          | 14                | 14.7              | 175     | 135               | 90  | 167 | -        |             |
| FB14-A2 ( 12N14-4A)   | 550946 | 12          | 14                | 14.7              | 175     | 135               | 90  | 167 | +        |             |
| F50-N18L-A (12N18-3A) | 550982 | 12          | 21                | 22.1              | 350     | 205               | 87  | 162 | -        |             |
| 53030 (F60-N30L-A)    | 550945 | 12          | 30                | 31.6              | 300     | 178               | 123 | 166 | -        |             |
| 53034 (F60-N30-A)     | 550843 | 12          | 30                | 31.6              | 300     | 178               | 123 | 166 | +        |             |



# Ca/Ca RANGE

Ready to use

Calcium/Calcium battery range is designed to offer higher starting power and a longer service life. Ready to use and easy to install, Ca/Ca battery will not require any acid handling. Its design allows it to have a low water consumption and no maintenance will be necessary during its entire service life.

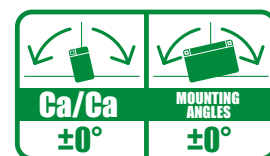
## FEATURES

- Calcium technology
- Ready to use
- 100% maintenance free
- Increased power & extended service life
- High vibration resistance
- Lightweight polypropylene container
- Heat-sealed container with flat top cover
- Venting systems
- Handle & "magic eye" charge indicator



## COMPATIBLE CHARGERS

- Fulload 1000
- Fulload F4
- Fulbank 2000



| Designation                     | P/N    | Voltage (V) | Capacity Ah (10h) | Capacity Ah (20h) | CCA (A) | Dimensions (±2mm) |     |     | Polarity | Terminal 3D |
|---------------------------------|--------|-------------|-------------------|-------------------|---------|-------------------|-----|-----|----------|-------------|
|                                 |        |             |                   |                   |         | L                 | W   | H   |          |             |
| U1-9 Ca/Ca (handle+ magic eye)  | 550875 | 12          | -                 | 28                | 300     | 195               | 130 | 180 | +        |             |
| U1R-9 Ca/Ca (handle+ magic eye) | 550876 | 12          | -                 | 28                | 300     | 195               | 130 | 180 | -        |             |
| NS40 (+D)                       | 550883 | 12          | -                 | 36                | 335     | 195               | 126 | 221 | +        |             |
| NS40 (+G)                       | 550884 | 12          | -                 | 36                | 335     | 195               | 126 | 221 | -        |             |
| NS60 (+D)                       | 550820 | 12          | -                 | 45                | 350     | 236               | 128 | 222 | +        |             |
| NS60 (+G)                       | 550821 | 12          | -                 | 45                | 350     | 236               | 128 | 222 | -        |             |



# DRY RANGE

Easy to store

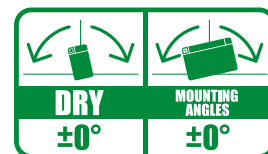
DRY battery range is designed to offer reliable starting power. Delivered with an acid pack, the DRY battery must be activated before the first use and must be checked periodically. DRY charged construction, no maintenance is necessary during a long period of storage.

## FEATURES

- ✓ DRY charged technology
- ✓ Activation before first use
- ✓ Periodically maintenance and refilled if necessary
- ✓ Upright installation only
- ✓ Regular life duration
- ✓ Unlimited shelf life

## COMPATIBLE CHARGERS

- ✓ Fulload 1000
- ✓ Fulload F4
- ✓ Fulbank 2000



| Designation           | P/N    | Voltage (V) | Capacity Ah (10h) | Capacity Ah (20h) | CCA (A) | Dimensions (±2mm) |     |     | Polarity | Terminal 3D |
|-----------------------|--------|-------------|-------------------|-------------------|---------|-------------------|-----|-----|----------|-------------|
|                       |        |             |                   |                   |         | L                 | W   | H   |          |             |
| 12N12A-4A-1 (FB12A-A) | 550561 | 12          | 12                | 12.6              | 155     | 134               | 80  | 160 |          |             |
| 12N14-3A (FB14L-A2)   | 550887 | 12          | 14                | 14.7              | 125     | 134               | 89  | 166 |          |             |
| 12N14-4A (FB14-A2)    | 550888 | 12          | 14                | 14.7              | 125     | 134               | 89  | 166 |          |             |
| 12N18-4A              | 550890 | 12          | 18                | 18.9              | 170     | 205               | 90  | 162 |          |             |
| F50N18L-A/12N18-3A    | 550547 | 12          | 20                | 21.1              | 260     | 205               | 90  | 162 |          |             |
| F50-N18A-A            | 550898 | 12          | 20                | 21.1              | 260     | 205               | 90  | 176 |          |             |
| 12N24-3A              | 550885 | 12          | 24                | 25.3              | 220     | 184               | 124 | 175 |          |             |
| 12N24-4A              | 550886 | 12          | 24                | 25.3              | 220     | 184               | 124 | 175 |          |             |
| U1-9                  | 550691 | 12          | 24                | 25.3              | 240     | 195               | 130 | 180 |          |             |
| U1R-9                 | 550810 | 12          | 24                | 25.3              | 240     | 195               | 130 | 180 |          |             |
| 53030 (F60-N30L-A)    | 550544 | 12          | -                 | 30                | 300     | 186               | 130 | 171 |          |             |
| 53034 (F60-N30-A)     | 550546 | 12          | -                 | 30                | 300     | 186               | 130 | 171 |          |             |



# VRLA RANGE

General purpose applications

VRLA batteries are general purpose batteries with 5 years design life in float service. With advanced AGM valve regulated technology, these batteries ensure high performance and reliability. They can also be used for light cycling use.

## FEATURES

- ✓ AGM technology
- ✓ 100 % maintenance free (VRLA design)
- ✓ Non-spillable: easy to ship
- ✓ Deep discharge protection
- ✓ No corrosion
- ✓ Multi-positional fitment
- ✓ Low gassing
- ✓ Long shelf life
- ✓ Very good cycling and stationary performance



## COMPATIBLE CHARGERS

- ✓ Fulload 1000
- ✓ Fulload F4
- ✓ Fulbank 2000

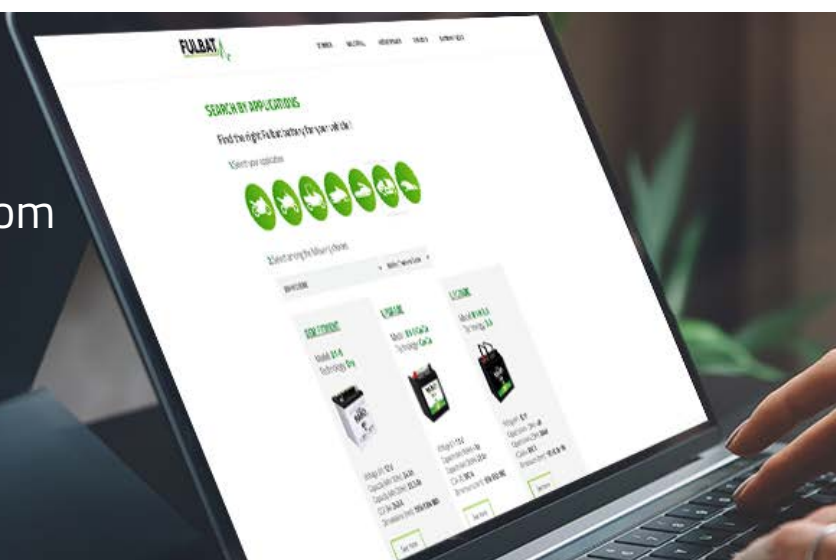
**NON-SPILLABLE**



| Designation | P/N    | Voltage (V) | Capacity Ah (10h) | Capacity Ah (20h) | CCA (A) | Dimensions (±2mm) |     |     | Polarity | Terminal 3D |
|-------------|--------|-------------|-------------------|-------------------|---------|-------------------|-----|-----|----------|-------------|
|             |        |             |                   |                   |         | L                 | W   | H   |          |             |
| FP12-4.5    | 590024 | 12          | 4.2               | 4.5               | -       | 90                | 101 | 107 | +        |             |
| FP12-7.2    | 590028 | 12          | 6.7               | 7.2               | -       | 151               | 65  | 99  | +        |             |
| FP12-10H    | 590032 | 12          | 9.3               | 10                | -       | 151               | 65  | 117 | +        |             |
| FP12-12     | 590033 | 12          | 11.2              | 12                | -       | 151               | 98  | 101 | +        |             |

## BATTERY FINDER

Find the right battery for your vehicle on [www.fulbat.com](http://www.fulbat.com)



# ROBOT RANGE

Powerful & safe

FL Series is a complete range of batteries for robot mowers specially designed for intensive charge and discharge use. Equipped with high-quality and high-capacity lithium cells, this range thus offers the robot great autonomy in working.

## FEATURES

- ✓ Compatible battery type
- ✓ High cycle life
- ✓ High autonomy: capacity sometimes higher than the original battery
- ✓ High quality lithium cells
- ✓ Very safe thanks to integrated BMS
- ✓ More than 200 models of robots covered



| Designation              |                    | P/N              | Voltage (V) | Capacity (Ah) | Power (Wh) | Technology | Dimensions (±2mm) |       |      | Compatibility (not exhaustive)                                      | OEM part numbers*                            |
|--------------------------|--------------------|------------------|-------------|---------------|------------|------------|-------------------|-------|------|---------------------------------------------------------------------|----------------------------------------------|
|                          |                    |                  |             |               |            |            | L                 | W     | H    |                                                                     |                                              |
| AL-KO                    | FL-AL01            | 560601           | 18          | 2.5           | 45         | Li-ion     | 94                | 69    | 25.5 | 100; 110; 41.6                                                      | 440454<br>441154<br>440530<br>441188         |
|                          | FL-AL02            | 560602           | 25.2        | 5             | 126        | Li-ion     | 128               | 69    | 50   | 82.8; 116; 3000; 4000                                               |                                              |
| AMBROGIO STIGA           | FL-ST01            | 560603           | 25.2        | 8.7           | 219.2      | Li-ion     | 150               | 64    | 93   | L100 Serie<br>Autoclip 140; 325; 520                                | CS_C0106/1<br>1126913801                     |
|                          | FL-ST02            | 560604           | 25.2        | 13.8          | 347.7      | Li-ion     | 302               | 156.8 | 41   | L200; L300 Serie<br>Autoclip 720S; 920S                             | CS C0114<br>1126-9121-01                     |
|                          | FL-ST03            | 560605           | 25.2        | 2.6           | 65.5       | Li-ion     | 144               | 76.9  | 38   | L30; L75; L85<br>Autoclip 125; 127; 145; 223; 225S                  | 075201300A<br>1126913701                     |
| AMBROGIO ZUCCHETTI WIPER | FL-ZU01            | 560630           | 25.9        | 2.6           | 67.3       | Li-ion     | 129               | 67    | 28   | L15; L20; L60; Twenty; Twenty Elite S+<br>i70; i100S; Climber; Q350 | 015E00600A<br>050Z38600A                     |
| BOSCH                    | FL-BS01            | 560606           | 32.4        | 3             | 97.2       | Li-ion     | 217               | 85    | 58   | 800; 850; 1000; 1100 Connect;<br>1200 Connect; 1300; 3600           | 3 600 HA2 000                                |
| HUSQVARNA GARDENA        | FL-HU01            | 560609           | 18          | 2             | 36         | Li-ion     | 70.5              | 66    | 57   | 105; 305; 308                                                       | 574 47 68-01                                 |
|                          | FL-HU06 (with PCM) | 560620           | 18          | 2             | 36         | Li-ion     | 69                | 56    | 67   | 105; 305; 308                                                       | 589 58 61-01<br>586 57 62-012                |
|                          | FL-HU02            | 560610           | 18          | 2.5           | 45         | Li-ion     | 91.5              | 67    | 26   | 310; 315; R100; R160                                                | 584 82 28-02                                 |
|                          | FL-HU03            | 560617           | 18          | 4             | 72         | Li-ion     | 146.2             | 67.6  | 38.8 | 320 (2013>); 330X (2013>);<br>420 (2016>); 520 (2018>)              | 589 58 52-01<br>588 14 64-01                 |
|                          | FL-HU04            | 560618           | 18          | 5.2           | 93.6       | Li-ion     | 146.2             | 67.6  | 38.8 | 430X (2016>); 440 (2017>);<br>450X (2016>); 550 (2018>)             | 589 58 57-01<br>589 58 58-02                 |
|                          | FH-HU05            | 560619           | 18          | 2.2           | 39.6       | NiMH       | 215               | 67.6  | 22.7 | 220AC; 230ACX; 265ACX                                               | 535 12 09-01<br>535 12 09-02                 |
|                          | FL-HU07            | 560621           | 22          | 5.2           | 114.4      | Li-ion     | 220               | 67    | 22   | 265ACX (2012>2015); 265ACX G2-2                                     | 578 84 87-02<br>578 84 87-01                 |
|                          | FL-HU08            | 560631           | 18.5        | 2             | 37         | Li-ion     | 138.5             | 81    | 38   | 305 (2019>); 310 (2019>);<br>315 (2019>)                            | 593 24 72-01<br>590 21 42-02<br>590 21 42-07 |
| ROBOMOW                  | FP-RM01            | 590028<br>750542 | 12          | 7.2           | 86.4       | AGM        | 151               | 99    | 65   | RX12U; RX20U; RX20 Pro                                              | MRK9101A                                     |
|                          | FL-RM02            | 560612           | 25.6        | 3             | 76.8       | LiFePO4    | 212               | 164   | 108  | City MC150; 300; 1000; 1200;<br>Premium RC304u; RC306               | MRK7005A                                     |
|                          | FL-RM03            | 560613           | 25.6        | 6.6           | 168.9      | LiFePO4    | 216               | 56    | 79   | RS612; RS622; RS635; WOLF GARTEN<br>RS1000; RS1800; RS3000          | MRK6105A                                     |
| WORX                     | FL-WX01            | 560614           | 20          | 2             | 40         | Li-ion     | 109.5             | 75    | 46   | L2000; M1000; M700                                                  | WA3551.1                                     |
|                          | FL-WX02            | 560615           | 20          | 5             | 100        | Li-ion     | 109.5             | 75    | 64   | L2000; M1000; M700                                                  | WA3556                                       |
|                          | FL-WX03            | 560616           | 28          | 2.5           | 70         | Li-ion     | 103.7             | 48.8  | 72.1 | L1500i; M500; WG754E; WG790                                         | WA3225                                       |

\*Non exhaustive



# ROBOT RANGE

Our different models



FL-AL01



FL-AL02



FL-ST01



FL-ST02



FL-ST03



FL-ZU01



FL-BS01



FL-HU01



FL-HU06



FL-HU02



FL-HU03



FH-HU04



FH-HU05



FL-HU07



FL-HU08



FL-RM01



FL-RM02



FL-RM03



FL-WX01



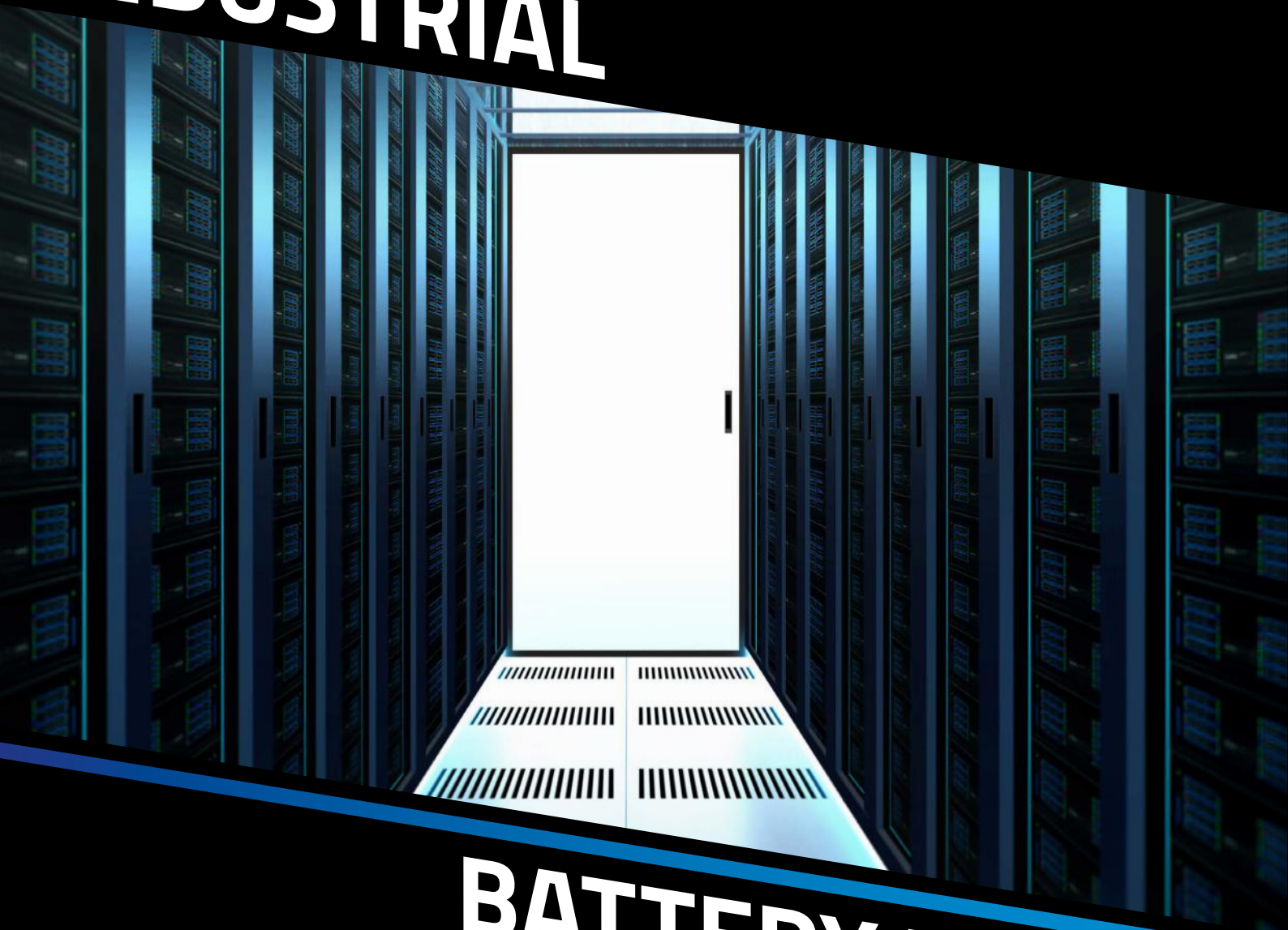
FL-WX02



FL-WX03

# FULBAT<sup>®</sup>

## INDUSTRIAL



## BATTERY RANGE

AGM | GEL | LiFePO4





# INTRODUCTION



FULBAT Industrial Battery is composed of 2 types of batteries : Stationary and Cyclic uses.

Also called back-up batteries, the stationary batteries take over in case of electrical system failure. Always in standby, these batteries are discharged only occasionally and do not require any maintenance. These batteries can be found in many applications areas such as security, telecommunication, UPS, medical sector where no failure is allowed.

Cyclic batteries, on the other hand, are used as the main source of energy and can support many charge and discharge cycles (more or less deep, depending on the technology – AGM, GEL, LITHIUM). This type of battery can be found in many applications such as small mobility (golf caddy, electric wheelchair...), energy storage (solar, wind) or leisure (marine, camping-car).

## APPLICATIONS

FULBAT Industrial Battery covers the wide majority of industrial applications.



**EMERGENCY  
& SECURITY**



**TELECOM**



**UPS & DATA  
CENTER**



**RENEWABLE  
ENERGY**



**MEDICAL**



**MOBILITY**



**GOLF  
CADDY**



**LEISURE  
& MARINE**

# GENERAL PURPOSE AGM RANGE

Maintenance free & reliable

FP Series are general purpose batteries with 5 years design life in float service (8 years from 40Ah). With advanced AGM valve regulated technology and high purity raw material, the FP series batteries ensure high performance and reliable standby service life.

## GENERAL INFORMATION

- Use: standby / light cyclic use
- Technology: AGM (VRLA)
- Available voltages: 4V - 6V - 12V
- Capacities from 0.8Ah to 250Ah
- Design life at 20°C ambient temperature:
  - 5 years up to 33Ah
  - 10 years from 40Ah
- Case material: ABS UL94-HB / FR version (UL94-V0) in option\*



**NON-SPILLABLE**

## FEATURES

- Maintenance free & non-spillable
- AGM (Absorbent Glass Mat) technology assures no free electrolyte
- Low self-discharge rate (about 3% per month at 20°C)
- Lead calcium grids for superior life
- Operate in any orientation (excluding continuous inverted use)
- Wide range of operating temperatures
- Rugged impact resistance ABS case
- Low gas emission due to high gas recombination of 99% (VRLA)

## APPLICATIONS



\*compliant with fire standard EN 60950-1 on flammability and fire resistance.



| Designation    | P/N    | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (10Hr) | Dimensions mm (±2mm) |      |       |              | Polarity                                                                              | Terminal* |
|----------------|--------|-------------|--------------------|--------------------|----------------------|------|-------|--------------|---------------------------------------------------------------------------------------|-----------|
|                |        |             |                    |                    | L                    | W    | H     | Total height |                                                                                       |           |
| FP4-3.5        | 590001 | 4           | 3.5                | 3.3                | 90                   | 34   | 59    | 65           |    | T1        |
| FP6-1.2        | 590002 | 6           | 1.2                | 1.1                | 97                   | 24   | 51.5  | 57.5         |    | T1        |
| FP6-2.8        | 590003 | 6           | 2.8                | 2.6                | 66                   | 33   | 97    | 103          |    | T1        |
| FP6-3.2        | 590004 | 6           | 3.2                | 3                  | 134                  | 34   | 60    | 66           |    | T1        |
| FP6-4          | 590005 | 6           | 4                  | 3.7                | 70                   | 47   | 100   | 106          |    | T1        |
| FP6-4.5        | 590006 | 6           | 4.5                | 4.2                | 70                   | 47   | 100   | 106          |    | T1        |
| FP6-6          | 590007 | 6           | 6                  | 5.6                | 70                   | 47   | 100   | 106          |    | T1        |
| FP6-4.5S       | 590008 | 6           | 4.5                | 4.2                | 67                   | 67   | 96    | 109          | -                                                                                     | S         |
| FP6-5          | 590009 | 6           | 5                  | 4.7                | 169.5                | 34.5 | 70    | 74           |    | T1        |
| FP6-7.2        | 590010 | 6           | 7.2                | 6.7                | 150                  | 34   | 94    | 100          |    | T1        |
| FP6-10         | 590011 | 6           | 10                 | 9.3                | 151                  | 50.5 | 94    | 100          |    | T1        |
| FP6-12         | 590012 | 6           | 12                 | 11.2               | 151                  | 50.5 | 94    | 100          |    | T2        |
| FP12-0.8       | 590014 | 12          | 0.8                | 0.8                | 96                   | 25   | 62    | 62           |    | JST       |
| FP12-0.8FR (1) | 590059 | 12          | 0.8                | 0.8                | 96                   | 25   | 62    | 62           |    | JST       |
| FP12-1.2       | 590015 | 12          | 1.2                | 1.1                | 97                   | 43   | 52    | 58           |    | T1        |
| FP12-1.2FR (1) | 590060 | 12          | 1.2                | 1.1                | 97                   | 43   | 52    | 58           |    | T1        |
| FP12-2.2       | 590017 | 12          | 2.2                | 2.1                | 70.5                 | 47.5 | 97    | 103          |    | T1        |
| FP12-2.3       | 590018 | 12          | 2.3                | 2.1                | 178                  | 35   | 60    | 66           |    | T1        |
| FP12-2.3FR (1) | 590061 | 12          | 2.3                | 2.1                | 178                  | 35   | 60    | 66           |    | T1        |
| FP12-2.3C      | 590019 | 12          | 2.3                | 2.1                | 182                  | 24   | 61    | 61           | -                                                                                     | Contacts  |
| FP12-2.6       | 590020 | 12          | 2.6                | 2.3                | 178                  | 35   | 60    | 66           |    | T1        |
| FP12-2.9       | 590021 | 12          | 2.9                | 2.7                | 79                   | 56   | 99    | 105          |    | T1        |
| FP12-3.2       | 590022 | 12          | 3.2                | 3                  | 134                  | 67   | 59.5  | 65.5         |    | T1        |
| FP12-4L        | 590023 | 12          | 4                  | 3.7                | 195                  | 47   | 70    | 76           |    | T1        |
| FP12-4.5       | 590071 | 12          | 4.5                | 4.2                | 90                   | 70   | 101   | 107          |    | T1        |
| FP12-4.5FR (1) | 590024 | 12          | 4.5                | 4.2                | 90                   | 70   | 101   | 107          |   | T1        |
| FP12-5.4       | 590025 | 12          | 5.4                | 5                  | 90                   | 70   | 101   | 107          |  | T2        |
| FP12-5         | 590026 | 12          | 5.4                | 4.7                | 151                  | 53   | 93    | 99           |  | T1        |
| FP12-5.5       | 590027 | 12          | 5.5                | 4.7                | 151                  | 53   | 93    | 99           |  | T2 + T1   |
| FP12-7.2       | 590028 | 12          | 7.2                | 6.7                | 151                  | 65   | 93.5  | 99.5         |  | T1        |
| FP12-7.2FR (1) | 590062 | 12          | 7.2                | 6.7                | 151                  | 65   | 93.5  | 99.5         |  | T1        |
| FP12-9         | 590031 | 12          | 9                  | 8.3                | 151                  | 65   | 93.5  | 99.5         |  | T2        |
| FP12-10H       | 590032 | 12          | 10                 | 9.3                | 151                  | 65   | 111   | 117          |  | T2        |
| FP12-12        | 590033 | 12          | 12                 | 11.2               | 151                  | 98   | 95    | 101          |  | T2        |
| FP12-12FR (1)  | 590063 | 12          | 12                 | 11.2               | 151                  | 98   | 95    | 101          |  | T2        |
| FP12-18        | 590035 | 12          | 18                 | 16.7               | 181.5                | 76.5 | 167.5 | 167.5        |  | T12       |
| FP12-18FR (1)  | 590064 | 12          | 18                 | 16.7               | 181.5                | 76.5 | 167.5 | 167.5        |  | T12       |
| FP12-20        | 590037 | 12          | 20                 | 18.6               | 181.5                | 77   | 167.5 | 167.5        |  | T12       |
| FP12-24        | 590038 | 12          | 24                 | 22.3               | 167                  | 175  | 125   | 125          |  | T12       |
| FP12-24FR (1)  | 590065 | 12          | 24                 | 22.3               | 167                  | 175  | 125   | 125          |  | T12       |
| FP12-33        | 590042 | 12          | 33                 | 30.7               | 195                  | 130  | 164   | 178          |  | T6        |
| FP12-40        | 590043 | 12          | 40                 | 38                 | 197                  | 165  | 170   | 170          |  | T6        |
| FP12-40FR (1)  | 590066 | 12          | 40                 | 38                 | 197                  | 165  | 170   | 170          |  | T6        |
| FP12-50        | 590044 | 12          | 50                 | 48                 | 197                  | 165  | 170   | 170          |  | T6        |
| FP12-55        | 590045 | 12          | 55                 | 52                 | 257                  | 132  | 200   | 200          |  | T6        |
| FP12-60        | 590046 | 12          | 60                 | 56                 | 229                  | 138  | 205   | 211          |  | T6        |
| FP12-65        | 590047 | 12          | 65                 | 62.1               | 348                  | 167  | 178   | 178          |  | T6        |
| FP12-65FR (1)  | 590069 | 12          | 65                 | 62.1               | 348                  | 167  | 178   | 178          |  | T6        |
| FP12-75        | 590050 | 12          | 75                 | 73                 | 348                  | 167  | 178   | 178          |  | T6        |
| FP12-80        | 590051 | 12          | 80                 | 78                 | 260                  | 168  | 208   | 214          |  | T6        |
| FP12-100       | 590053 | 12          | 104                | 100                | 330                  | 173  | 212   | 220          |  | T11       |

(1) Conformed to UL94-V0 (Flame retardant)

\*Terminals p.16

# FRONT TERMINAL AGM RANGE

Easy to install & maintain

FFT batteries are designed for applications that demand high levels of reliability and safety, FFT batteries offer a long service life up to 12 years.

Thanks to their front terminal design, these batteries allow rapid installation and easy access for maintenance.

## GENERAL INFORMATIONS

- Use: standby
- Technology: AGM (VRLA)
- Available voltage: 12V
- Capacities from 100Ah to 190Ah
- 12 years design life at 25°C ambient temperature
- Case material: ABS UL94-HB / FR version (UL94-V0) in option\*

## FEATURES

- Front access to terminals
- Installation, maintenance and supervision easy
- Ideal for 48V system
- Ideal for 19" or 23" racks or site cabinets
- Maintenance free & non-spillable
- AGM ( Absorbent Glass Mat) technology assures no free electrolyte
- Low self-discharge rate (about 3%/month at 20 °C)
- Wide range of operating temperatures
- Low gas emission due to high gas recombination of 99% (VRLA)



**NON-SPILLABLE**

## APPLICATIONS



| Designation | P/N    | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (10Hr) | Dimensions mm (±2mm) |     |       |              | Polarity                                                                              | Terminal* |
|-------------|--------|-------------|--------------------|--------------------|----------------------|-----|-------|--------------|---------------------------------------------------------------------------------------|-----------|
|             |        |             |                    |                    | L                    | W   | H     | Total height |                                                                                       |           |
| FFT12-100   | 590067 | 12          | 106                | 100                | 508                  | 110 | 238.5 | 238.5        |  | T6        |
| FFT12-150   | 590068 | 12          | 157.6              | 150                | 551                  | 110 | 288   | 288          |  | T6        |

\*compliant with fire standard EN 60950-1 on flammability and fire resistance.

\*Terminals p.16



# HIGH RATE AGM RANGE

Maintenance free & reliable

FPH Series are high rate batteries with 12 years design life in float service. With advanced AGM valve regulated technology and high purity raw material, the FPH batteries ensure reliable standby service life and high performance during high current discharge requirements.

## GENERAL INFORMATION

- Use: standby
- Technology: AGM (VRLA)
- Available voltage: 12V
- Capacities from 9Ah to 46.5Ah
- 12 years design life at 25°C ambient temperature
- Case material: ABS UL94-HB / FR version (UL94-V0) in option\*



**NON-SPILLABLE**

## FEATURES

- Excellent high rate discharge performance
- 12 years design life at 25°C (5 years for FPH12-35W)
- Maintenance free & non-spillable
- AGM (Absorbent Glass Mat) technology assures no free electrolyte
- Low self-discharge rate (about 3% / month at 25°C)
- Wide range of operating temperatures
- Low gas emission due to high gas recombination of 99% (VRLA)

## APPLICATIONS



| Designation | P/N    | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (5Hr) | W/cell (10min) 1.6VPC at 25°C (W) | Dimensions mm (±2mm) |     |      |              | Polarity | Terminal* |
|-------------|--------|-------------|--------------------|-------------------|-----------------------------------|----------------------|-----|------|--------------|----------|-----------|
|             |        |             |                    |                   |                                   | L                    | W   | H    | Total height |          |           |
| FPH12-35W   | 590073 | 12          | 9                  | 7.9               | 45.5                              | 151                  | 65  | 93.5 | 99           |          | T2        |
| FPH12-750W  | 590074 | 12          | 26                 | 21.9              | 126.1                             | 166                  | 175 | 125  | 125          |          | T12       |
| FPH12-1100W | 590075 | 12          | 46.5               | 45                | 185.9                             | 197                  | 165 | 170  | 170          |          | T6        |

\*compliant with fire standard EN 60950-1 on flammability and fire resistance.

\*Terminals p.16

# CYCLIC AGM RANGE

Robust & long cycle life

FPC Series are deep cycle batteries specially designed for long duration cyclic applications (where the battery is frequently charged and discharged). With advanced AGM valve regulated technology and oversized negative plates, the FPC Series ensure very good cyclic performance with greater depth of discharge for mobility-type applications such as medical, golf and also renewable energies storage.

## GENERAL INFORMATION

- Use: cyclic use
- Technology: AGM (VRLA)
- Available voltages: 6V - 12V
- Capacities from 8Ah to 200Ah
- Cycle life:
  - Up to 350 cycles at 100% DOD\* (50% capacity @20°C)
  - Up to 800 cycles at 50% DOD\* (50% capacity @20°C)
- Case material: ABS UL94-HB

\*Depth Of Discharge



## FEATURES

- Maintenance free & non-spillable
- High cyclic performances: x2 compared to AGM standard batteries
- Over dimensioned negative plate & enhanced conception for longer cycle life
- Good recovery from deep discharge
- Lead calcium grids for superior life
- Lower internal resistance for higher current discharge
- Low self-discharge rate (about 3% per month at 20°C)
- Wide range operating temperatures
- Operation in any orientation (excluding continuous inverted use)
- Robust construction: strong resistance to vibrations
- Low gas emission due to high gas recombination of 99% (VRLA)



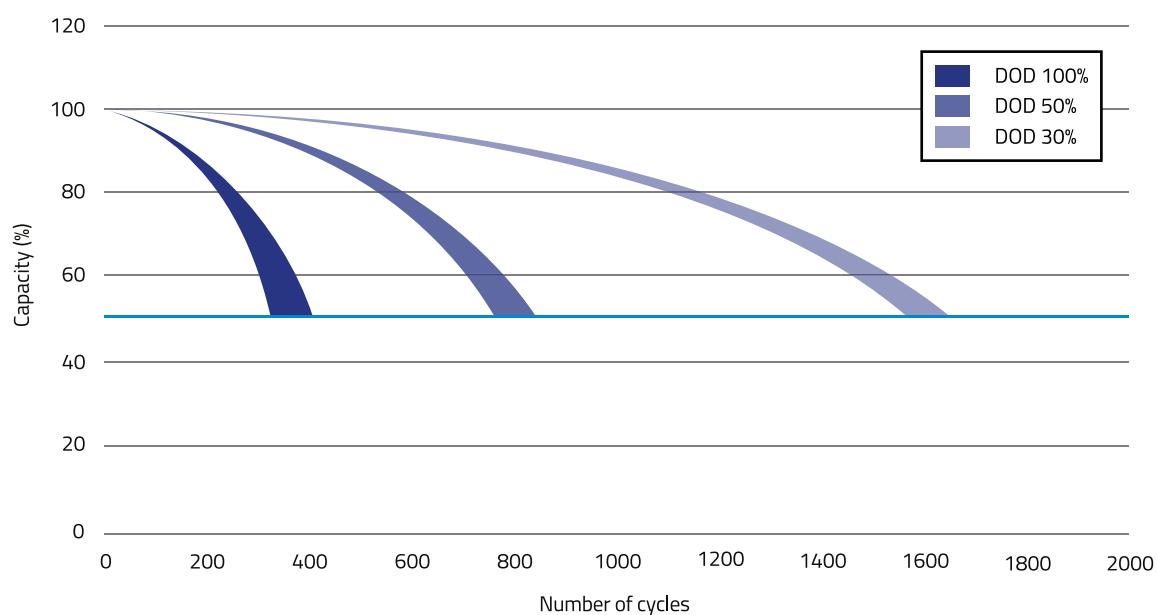
## APPLICATIONS





| Designation | P/N    | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (10Hr) | Dimensions mm (±2mm) |      |       |              | Polarity | Terminal* |
|-------------|--------|-------------|--------------------|--------------------|----------------------|------|-------|--------------|----------|-----------|
|             |        |             |                    |                    | L                    | W    | H     | Total height |          |           |
| FPC6-13     | 590501 | 6           | 13.9               | 13                 | 151                  | 50.5 | 94    | 100          |          | T2        |
| FPC12-8     | 590502 | 12          | 8                  | 7.2                | 151                  | 65   | 93.5  | 99.5         |          | T2        |
| FPC12-13    | 590504 | 12          | 13.9               | 13                 | 151                  | 98   | 95    | 101          |          | T2        |
| FPC12-20    | 590505 | 12          | 20                 | 18                 | 181.5                | 76.5 | 167.5 | 167.5        |          | T12       |
| FPC12-26    | 590506 | 12          | 26                 | 24.2               | 165                  | 176  | 125   | 125          |          | T12       |
| FPC12-28    | 590507 | 12          | 28                 | 26                 | 166                  | 175  | 125   | 125          |          | T12       |
| FPC12-35    | 590508 | 12          | 35.4               | 33                 | 195                  | 130  | 164   | 182          |          | T6        |
| FPC12-40    | 590509 | 12          | 40.8               | 38                 | 197                  | 165  | 170   | 170          |          | T6        |
| FPC12-60    | 590510 | 12          | 60                 | 56                 | 229                  | 138  | 210   | 210          |          | T6        |
| FPC12-80    | 590511 | 12          | 80.4               | 75                 | 260                  | 168  | 208   | 214          |          | T6        |
| FPC12-100   | 590512 | 12          | 107.2              | 100                | 330                  | 173  | 212   | 220          |          | T11       |
| FPC12-120   | 590513 | 12          | 128.6              | 120                | 408                  | 177  | 225   | 225          |          | T11       |
| FPC12-160   | 590514 | 12          | 160.8              | 150                | 483                  | 170  | 238.5 | 238.5        |          | T11       |
| FPC12-200   | 590515 | 12          | 214.4              | 200                | 522                  | 240  | 218   | 224          |          | T11       |

## CYCLE LIFE



## PACKAGING

Are delivered in color box:

- FPC12-13
- FPC12-20
- FPC12-26
- FPC12-35



\*Terminals p.16

# CYCLIC GEL RANGE

Ideal in harsh conditions

FPG Series are deep cycle batteries specially designed for long duration cyclic applications (where the battery is frequently charged and discharged), ie with use in charge and then intensive discharge. With innovative GEL valve regulated technology and special plate design, the FPG Series ensure higher cyclic performance and higher recovery capability after deep discharge than cyclic AGM batteries.

## GENERAL INFORMATION

- ⚡ Use: cyclic use
- ⚡ Technology: GEL (VRLA)
- ⚡ Available voltage: 12V
- ⚡ Capacities from 26Ah to 200Ah
- ⚡ Cycle life:
  - Up to 550 cycles at 100% DOD\* (50% capacity @20°C)
  - Up to 1100 cycles at 50% DOD\* (50% capacity @20°C)
- ⚡ Case material: ABS UL94-HB

\*Depth Of Discharge



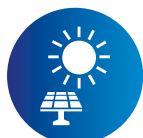
**NON-SPILLABLE**



## FEATURES

- ⚡ Maintenance free & non-spillable
- ⚡ High cyclic performances: x3 compared to AGM standard batteries
- ⚡ High recovery from deep discharge
- ⚡ Very low self-discharge rate (about 2% per month at 20°C)
- ⚡ Wide range of operating temperatures - superior to AGM
- ⚡ Higher operating temperature & depth of discharge: ideal in harsh conditions
- ⚡ Operation in any orientation (excluding continuous inverted use)
- ⚡ Rugged impact resistance
- ⚡ No electrolyte stratification phenomenon
- ⚡ Low gas emission due to high gas recombination of 99% (VRLA)

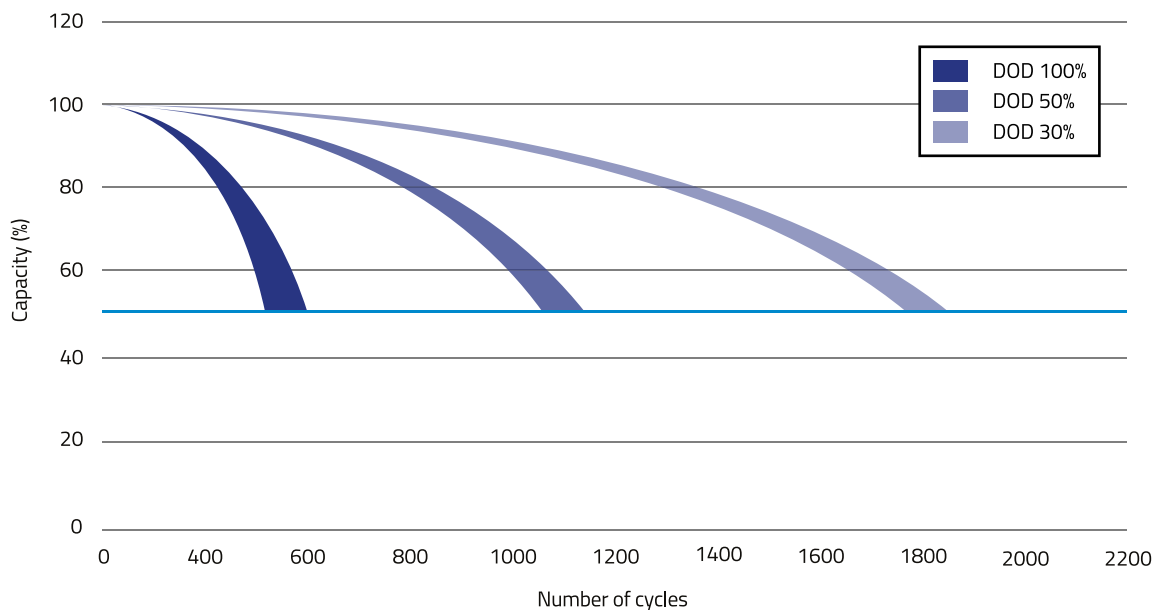
## APPLICATIONS





| Designation   | P/N    | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (10Hr) | Dimensions mm (±2mm) |     |       |              | Polarity                                                                            | Terminals* |
|---------------|--------|-------------|--------------------|--------------------|----------------------|-----|-------|--------------|-------------------------------------------------------------------------------------|------------|
|               |        |             |                    |                    | L                    | W   | H     | Total height |                                                                                     |            |
| FPG12-26      | 591506 | 12          | 26                 | 24.2               | 166                  | 175 | 125   | 125          |  | T12        |
| FPG12-31      | 591508 | 12          | 31                 | 27.6               | 195                  | 130 | 164   | 178          |  | T6         |
| FPG12-40      | 591509 | 12          | 40                 | 35                 | 197                  | 165 | 170   | 170          |  | T6         |
| FPG12-50      | 591510 | 12          | 50                 | 46.5               | 229                  | 138 | 205   | 211          |  | T6         |
| FPG12-60      | 591511 | 12          | 60                 | 55                 | 260                  | 168 | 173   | 179          |  | T6         |
| FPG12-70      | 591517 | 12          | 70                 | 64.6               | 260                  | 168 | 208   | 214          |  | T6         |
| FPG12-85      | 591518 | 12          | 85                 | 80                 | 306                  | 168 | 208   | 214          |  | T6         |
| FPG12-90 (L5) | 591520 | 12          | 90                 | 84                 | 353                  | 175 | 190   | 190          |  | Auto       |
| FPG12-100     | 591512 | 12          | 100                | 90                 | 330                  | 173 | 212   | 218          |  | T11        |
| FPG12-130     | 591519 | 12          | 130                | 125                | 345                  | 172 | 274   | 280          |  | T11        |
| FPG12-140     | 591514 | 12          | 140                | 135                | 483                  | 170 | 238.5 | 238.5        |  | T11        |
| FPG12-200     | 591515 | 12          | 200                | 190                | 522                  | 240 | 218   | 224          |  | T11        |
| FPG12-250     | 591516 | 12          | 258                | 250                | 522                  | 268 | 220   | 226          |  | T11        |

## CYCLE LIFE



## PACKAGING

Are delivered in color box:

- FPG12-26
- FPG12-31



\*Terminals p.16

# HIGH CYCLIC LiFePO4 RANGE

High performance & light weight

FLP Series are Lithium Iron Phosphate (LiFePO4) batteries specially designed to replace lead acid batteries thanks to their standard size cases and their similar charging voltage.

The FLP Series offer many advantages compared to lead acid in terms of weight, cyclic performance, safety and power.

## GENERAL INFORMATION

- Use: cyclic use
- Technology: Lithium Iron Phosphate (LiFePO4)
- Available voltages: 6V - 12V
- Capacities from 6Ah to 200Ah
- Cycle life:
  - Up to 2000 cycles at 100% DOD\* (50% capacity @20°C)
  - Up to 4000 cycles at 80% DOD\* (50% capacity @20°C)
- Case material: ABS UL94-HB

*\*Depth Of Discharge*

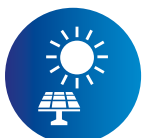


## FEATURES

- High cyclic performances: x10 compared to AGM standard batteries
- Lighter weight: 60% lighter than lead acid battery
- Very high recovery from deep discharge – up to 100% DOD (vs 50% to 80% for AGM)
- Very high charge and discharge current accepted (to 10 times faster than lead acid batteries)
- Protection circuit integrated (PCM): overcharge protection, overdischarge protection, temperature protection & balancing function
- Wide range of operating temperatures: from -20°C to +60°C
- Safety: non-spillable, no acid in the battery, no risk of explosion, no gas emission
- Operation in any orientation
- PSOC: Partial State Of Charge accepted
- Low self-discharge rate (about 3% per month at 20°C)
- Can be charged with a standard lead acid charger (without desulphation step)
- Power and volume ratio yielding unrivalled energy density



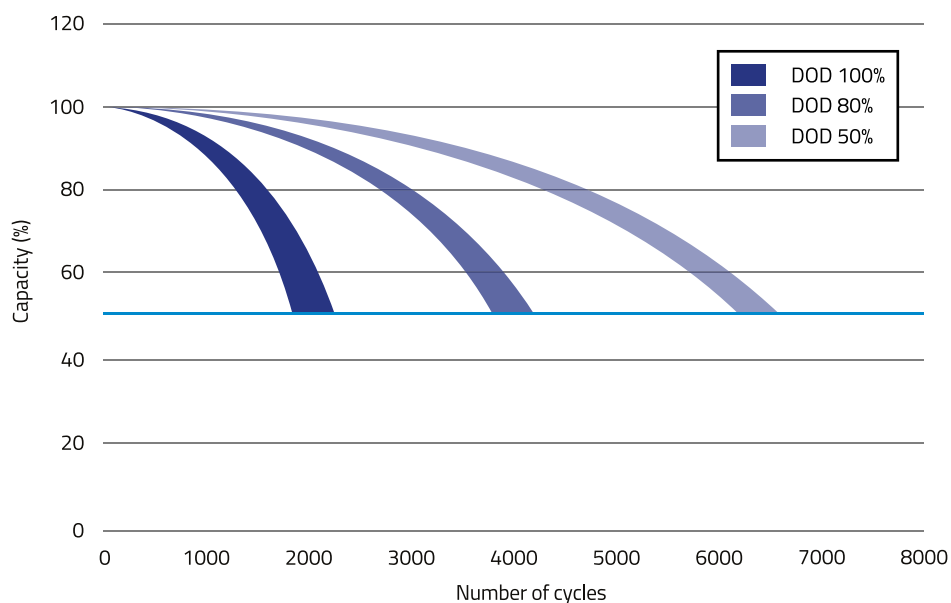
## APPLICATIONS





| Designation | P/N    | Voltage (V) | Capacity Ah (5Hr) | Dimensions mm (±2mm) |       |     |              | Polarity | Terminals* |
|-------------|--------|-------------|-------------------|----------------------|-------|-----|--------------|----------|------------|
|             |        |             |                   | L                    | W     | H   | Total height |          |            |
| FLP6-6      | 592501 | 6.4         | 6                 | 70                   | 47    | 101 | 105          |          | T2         |
| FLP12-9     | 592502 | 12.8        | 9                 | 151                  | 65    | 94  | 99           |          | T2         |
| FLP12-12    | 592503 | 12.8        | 12                | 151                  | 98    | 95  | 100          |          | T2         |
| FLP12-24    | 592511 | 12.8        | 24                | 181                  | 77    | 167 | 167          |          | T12        |
| FLP12-36    | 592505 | 12.8        | 36                | 195                  | 130   | 162 | 162          |          | T6         |
| FLP12-40    | 592506 | 12.8        | 40                | 195                  | 165   | 175 | 175          |          | T6         |
| FLP12-65    | 592507 | 12.8        | 60                | 229                  | 138   | 217 | 217          |          | T6         |
| FLP12-84    | 592515 | 12.8        | 84                | 260                  | 169   | 213 | 218          |          | T11        |
| FLP12-100   | 592508 | 12.8        | 100               | 326                  | 171.7 | 212 | 212          |          | T11        |
| FLP12-100B  | 592512 | 12.8        | 100               | 353                  | 175   | 190 | 190          |          | Auto       |
| FLP12-150   | 592509 | 12.8        | 150               | 483                  | 170   | 238 | 238          |          | T11        |
| FLP12-200   | 592510 | 12.8        | 200               | 521                  | 233   | 220 | 220          |          | T11        |

## CYCLE LIFE



**Fulbat LiFePo4 Battery Monitor**



\*Terminals p.14

# MARINE DUAL PURPOSE RANGE

Non-spillable & maintenance free

FDM Series are dual purpose batteries designed to offer both superior starting and cycling performance for marine & leisure applications. Featuring a spill-proof & maintenance-free design, these batteries boast low self-discharge and an extended service life, resisting cycles with high durability. Infused with carbon additives, they function effectively even without reaching full charge.

## GENERAL INFORMATION

- Use : starter / cyclic use
- Technology: AGM Carbon (VRLA)
- Available voltage: 12V
- Capacity from 79 to 240Ah
- Cycle life:
  - Up to 450 cycles at 100% DOD\* (50% capacity @20°C)
  - Up to 850 cycles at 50% DOD\* (50% capacity @20°C)
- Case material: polypropylene



## FEATURES

- Dual Purpose AGM technology (VRLA)
- Non spillable and maintenance free
- Superior starting & cycling performance
- Carbon additives to perform in Partial State of Charge (PSOC) and to increase charge acceptance
- High vibration resistance
- Low self-discharge rate for longer shelf life

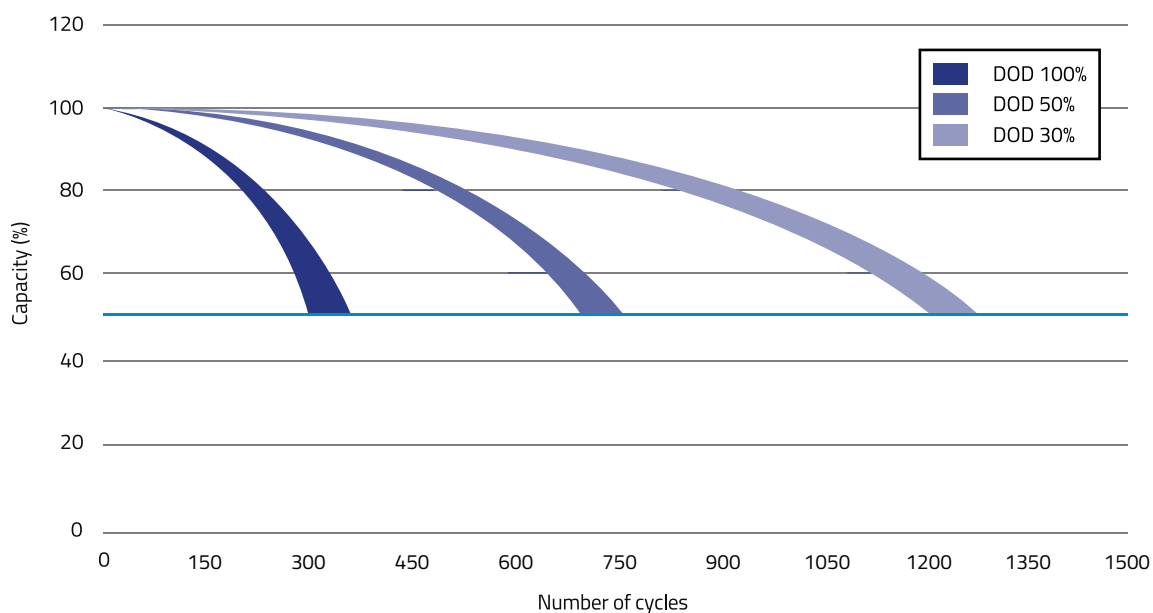
## APPLICATIONS





| Designation   | P/N    | Box size | Voltage (V) | Capacity Ah (20Hr) | CCA (A) | Dimensions mm (±2mm) |     |     |              | Polarity | Terminal* |
|---------------|--------|----------|-------------|--------------------|---------|----------------------|-----|-----|--------------|----------|-----------|
|               |        |          |             |                    |         | L                    | W   | H   | Total height |          |           |
| FDM12-550-M24 | 590516 | 24       | 12          | 79                 | 550     | 260                  | 168 | 208 | 233          |          | DUAL      |
| FDM12-800-M27 | 590517 | 27       | 12          | 92                 | 800     | 306                  | 168 | 208 | 233          |          | DUAL      |
| FDM12-825-M31 | 590518 | 31       | 12          | 105                | 825     | 330                  | 173 | 212 | 237          |          | DUAL      |
| FDM12-700     | 590519 | -        | 12          | 140                | 700     | 512                  | 188 | 196 | 218          |          | AUTO      |
| FDM12-900     | 590520 | -        | 12          | 180                | 900     | 512                  | 222 | 196 | 106          |          | AUTO      |
| FDM12-1000    | 590521 | -        | 12          | 240                | 1000    | 517                  | 272 | 218 | 240          |          | AUTO      |

## CYCLE LIFE



\*Terminals p.16

## TERMINALS DETAILS

Technical drawing of a mechanical part. The drawing includes a side view and a cross-sectional view. Dimensions are provided in inches [ ] and millimeters [ ].

- Side view dimensions:
  - Overall length: 8.0 [203.2]
  - Internal hole diameter: 3.4 [86.4]
  - Internal hole length: 7.95 [201.9]
- Cross-sectional view dimensions:
  - Overall width: 6.35 [162.7]

Technical drawing of a stepped shaft. The main view shows a square cross-section with a central circular hole. Dimensions are: total width 14 [0.551], total height 13 [0.512], hole diameter  $\phi 4.5$  [0.177]. The side view shows a stepped profile with a top diameter of 2 [0.079] and a bottom diameter of  $\phi 6$  [0.236].

[illegible][illegible]

(in mm)



## T11 to automotive adapter



## T6 to automotive adapter



T1 to T2 adapter



# MAIN BATTERIES BY APPLICATION

| SECURITY    |        |            |             |                    |                    |                      |      |       |              |                                                                                     |            |
|-------------|--------|------------|-------------|--------------------|--------------------|----------------------|------|-------|--------------|-------------------------------------------------------------------------------------|------------|
| Designation | P/N    | Technology | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (10Hr) | Dimensions mm (±2mm) |      |       |              | Polarity                                                                            | Terminals* |
|             |        |            |             |                    |                    | L                    | W    | H     | Total height |                                                                                     |            |
| FP12-1.2    | 590015 | AGM        | 12          | 1.2                | 1.1                | 97                   | 43   | 52    | 58           |  | T1         |
| FP12-2.3    | 590018 | AGM        | 12          | 2.3                | 2.1                | 178                  | 35   | 60    | 66           |  | T1         |
| FP12-3.2    | 590022 | AGM        | 12          | 3.2                | 3.0                | 134                  | 67   | 59.5  | 65.5         |  | T1         |
| FP12-7.2    | 590028 | AGM        | 12          | 7.2                | 6.7                | 151                  | 65   | 93.5  | 99.5         |  | T1         |
| FP12-12     | 590033 | AGM        | 12          | 12                 | 11.2               | 151                  | 98   | 95    | 101          |  | T2         |
| FP12-18     | 590035 | AGM        | 12          | 18                 | 16.7               | 181.5                | 76.5 | 167.5 | 167.5        |  | T12        |

| UPS         |        |            |             |                    |                    |                      |      |       |              |                                                                                     |            |
|-------------|--------|------------|-------------|--------------------|--------------------|----------------------|------|-------|--------------|-------------------------------------------------------------------------------------|------------|
| Designation | P/N    | Technology | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (10Hr) | Dimensions mm (±2mm) |      |       |              | Polarity                                                                            | Terminals* |
|             |        |            |             |                    |                    | L                    | W    | H     | Total height |                                                                                     |            |
| FP6-7.2     | 590028 | AGM        | 6           | 7.2                | 6.7                | 150                  | 34   | 94    | 100          |  | T1         |
| FP12-5.4    | 590025 | AGM        | 12          | 5.4                | 5.0                | 90                   | 70   | 101   | 107          |  | T2         |
| FP12-5.5    | 590027 | AGM        | 12          | 5.5                | 4.7                | 151                  | 53   | 93    | 99           |  | T2 + T1    |
| FP12-9      | 590031 | AGM        | 12          | 9                  | 8.3                | 151                  | 65   | 93.5  | 99.5         |  | T2         |
| FP12-18     | 590035 | AGM        | 12          | 18                 | 16.7               | 181.5                | 76.5 | 167.5 | 167.5        |  | T12        |

| MEDICAL     |        |            |             |                    |                    |                      |      |       |              |                                                                                       |            |
|-------------|--------|------------|-------------|--------------------|--------------------|----------------------|------|-------|--------------|---------------------------------------------------------------------------------------|------------|
| Designation | P/N    | Technology | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (10Hr) | Dimensions mm (±2mm) |      |       |              | Polarity                                                                              | Terminals* |
|             |        |            |             |                    |                    | L                    | W    | H     | Total height |                                                                                       |            |
| FP6-1.2     | 590002 | AGM        | 6           | 1.2                | 1.1                | 97                   | 24   | 51.5  | 57.5         |    | T1         |
| FP6-3.2     | 590004 | AGM        | 6           | 3.2                | 3.0                | 134                  | 34   | 60    | 66           |   | T1         |
| FP6-4.5     | 590006 | AGM        | 6           | 4.5                | 4.2                | 70                   | 47   | 100   | 106          |  | T1         |
| FP6-10      | 590011 | AGM        | 6           | 10                 | 9.3                | 151                  | 50.5 | 94    | 100          |  | T1         |
| FP12-1.2    | 590015 | AGM        | 12          | 1.2                | 1.1                | 97                   | 43   | 52    | 58           |  | T1         |
| FP12-2.3    | 590018 | AGM        | 12          | 2.3                | 2.1                | 178                  | 35   | 60    | 66           |  | T1         |
| FP12-3.2    | 590022 | AGM        | 12          | 3.2                | 3.0                | 134                  | 67   | 59.5  | 65.5         |  | T1         |
| FP12-7.2    | 590028 | AGM        | 12          | 7.2                | 6.7                | 151                  | 65   | 93.5  | 99.5         |  | T1         |
| FP12-18     | 590035 | AGM        | 12          | 18                 | 16.7               | 181.5                | 76.5 | 167.5 | 167.5        |  | T12        |

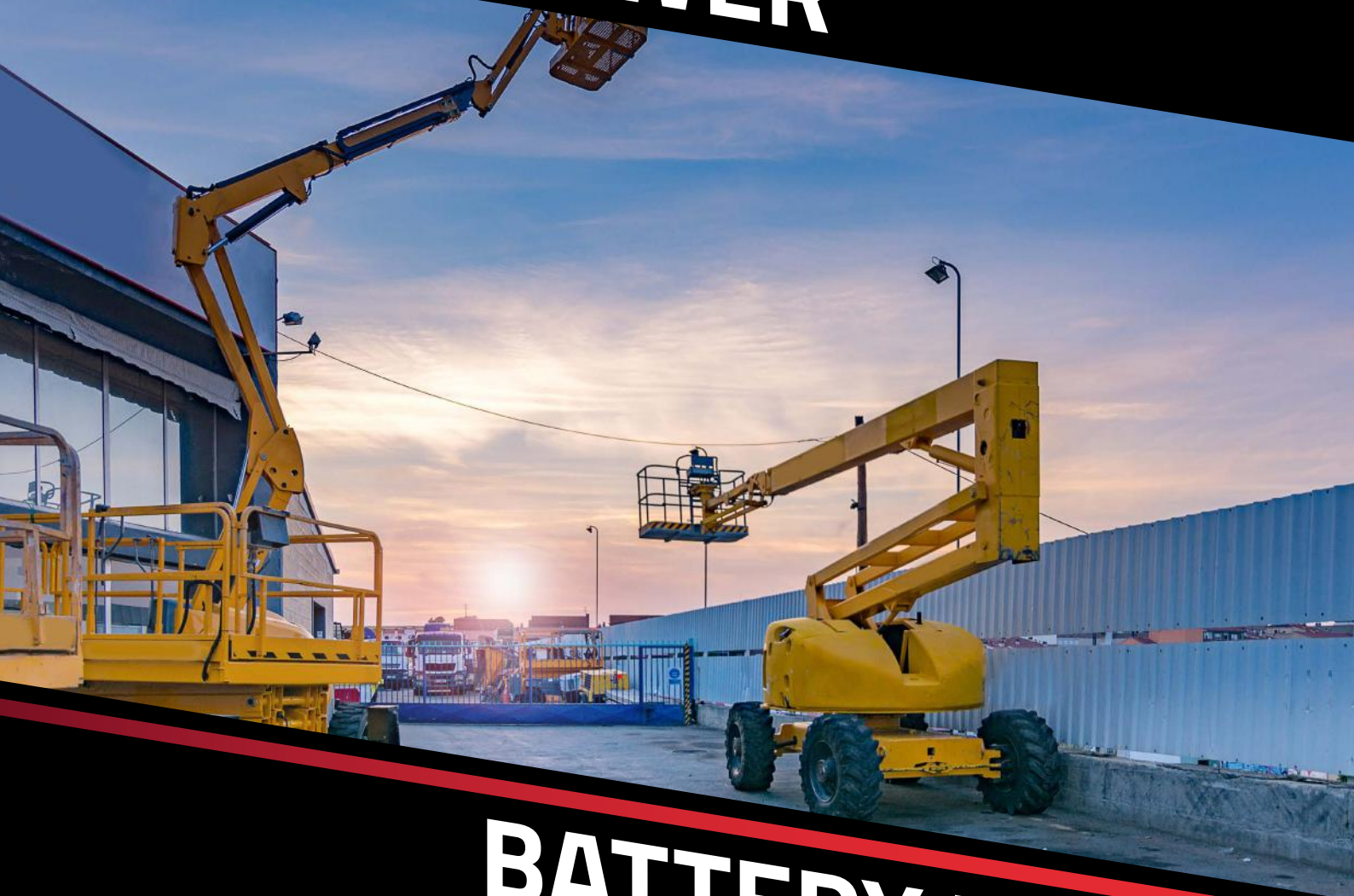
| MOBILITY    |        |            |             |                    |                    |                      |      |       |              |                                                                                       |            |
|-------------|--------|------------|-------------|--------------------|--------------------|----------------------|------|-------|--------------|---------------------------------------------------------------------------------------|------------|
| Designation | P/N    | Technology | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (10Hr) | Dimensions mm (±2mm) |      |       |              | Polarity                                                                              | Terminals* |
|             |        |            |             |                    |                    | L                    | W    | H     | Total height |                                                                                       |            |
| FPC12-13    | 590504 | AGM        | 12          | 13.9               | 13                 | 151                  | 98   | 95    | 101          |  | T2         |
| FPC12-20    | 590505 | AGM        | 12          | 20                 | 18                 | 181.5                | 76.5 | 167.5 | 167.5        |  | T12        |
| FPC12-26    | 590506 | AGM        | 12          | 26                 | 24.2               | 165                  | 176  | 125   | 125          |  | T12        |
| FPC12-35    | 590508 | AGM        | 12          | 35.4               | 33                 | 195                  | 130  | 164   | 182          |  | T5         |
| FPC12-40    | 590509 | AGM        | 12          | 40.8               | 38                 | 197                  | 165  | 170   | 170          |  | T12/T6     |
| FPG12-31    | 591508 | GEL        | 12          | 31                 | 27.6               | 195                  | 130  | 164   | 178          |  | T5         |
| FPG12-40    | 591509 | GEL        | 12          | 40                 | 35                 | 197                  | 165  | 170   | 170          |  | T6         |
| FPG12-50    | 591510 | GEL        | 12          | 50                 | 46.5               | 229                  | 138  | 205   | 211          |  | T6         |
| FPG12-70    | 591517 | GEL        | 12          | 70                 | 64.6               | 260                  | 168  | 208   | 230          |  | T6         |
| FLP12-12    | 592503 | LiFePO4    | 12.8        | -                  | 12 (5Hrs)          | 151                  | 98   | 95    | 100          |  | T2         |
| FLP12-36    | 592505 | LiFePO4    | 12.8        | -                  | 36 (5Hrs)          | 195                  | 130  | 162   | 162          |  | T6         |
| FLP12-40    | 592506 | LiFePO4    | 12.8        | -                  | 40 (5Hrs)          | 195                  | 165  | 175   | 175          |  | T6         |

| GOLF CADDY  |        |            |             |                    |                    |                      |      |       |              |                                                                                       |            |
|-------------|--------|------------|-------------|--------------------|--------------------|----------------------|------|-------|--------------|---------------------------------------------------------------------------------------|------------|
| Designation | P/N    | Technology | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (10Hr) | Dimensions mm (±2mm) |      |       |              | Polarity                                                                              | Terminals* |
|             |        |            |             |                    |                    | L                    | W    | H     | Total height |                                                                                       |            |
| FPC12-20    | 590505 | AGM        | 12          | 20                 | 18                 | 181.5                | 76.5 | 167.5 | 167.5        |  | T12        |
| FPC12-26    | 590506 | AGM        | 12          | 26                 | 24.2               | 165                  | 176  | 125   | 125          |  | T12        |
| FPC12-35    | 590508 | AGM        | 12          | 35.4               | 33                 | 195                  | 130  | 164   | 182          |  | T5         |
| FPG12-26    | 591506 | GEL        | 12          | 26                 | 24.2               | 166                  | 175  | 125   | 125          |  | T12        |
| FPG12-31    | 591508 | GEL        | 12          | 31                 | 27.6               | 195                  | 130  | 164   | 178          |  | T5         |
| FLP12-36    | 592505 | LiFePO4    | 12.8        | -                  | 36 (5Hrs)          | 195                  | 130  | 162   | 162          |  | T6         |

\*Terminals p.16

# FULBAT<sup>®</sup>

## MOTIVE POWER



## BATTERY RANGE

FLOODED | AGM CARBON | LITHIUM





# INTRODUCTION

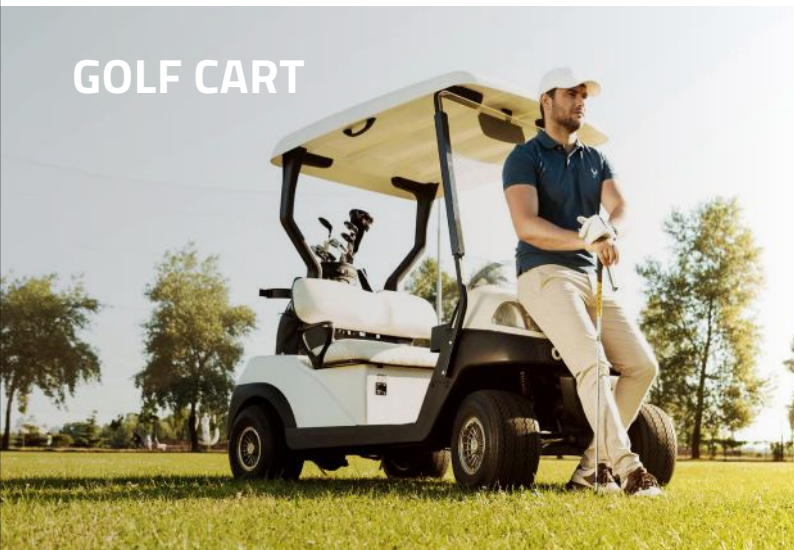


Whether for industrial or leisure use, FULBAT Motive Power offers a complete battery solution for small traction applications that require power and high resistance to deep discharge. Including Flooded (with maintenance), AGM Carbon (non-spillable and maintenance free) and LITHIUM (maintenance free), FULBAT Deep Cycle range is ideal for applications such as golf carts, aerial work platforms, cleaning machines, marine, leisure and electric vehicles.

## APPLICATIONS

FULBAT Motive Power Battery covers the wide majority of golf carts, cleaning machines, aerial work platforms, leisure and marine applications.

### GOLF CART



### AERIAL WORK PLATFORM



### FLOOR CLEANING MACHINE



### LEISURE & MARINE





# FLOODED RANGE

High performance & resistance

FDC Series are Deep Cycle liquid electrolyte batteries specifically designed for small traction applications (requiring deep discharges).

With robust design made of thick positive & negative grid plates in a special alloy, the FDC Series offer low self-discharge and ensure a long service life with high resistance to cycles.

## GENERAL INFORMATION

- Technology: flooded lead acid
- Available voltages: 6V, 8V, 12V
- Capacities from 150Ah to 260Ah
- Cycle life:
  - Up to 800 cycles at 80% DOD\* (50% capacity @20°C)
  - Up to 1100 cycles at 50% DOD\* (50% capacity @20°C)
- Case material: polypropylene

*\*Depth Of Discharge*



## FEATURES

- Good deep discharge resilience performance
- Low self-discharge
- Low maintenance
- Polypropylene case material = shock-resistant & acid-resistant
- Terminals with special lead alloy designed for high vibration resistance
- Reinforced grid plates for optimal cyclic use
- Negative plate: 99.9% pure lead with hard paste feature, specific additives for deep cycle purpose
- Very good charging efficiency
- Lower water consumption and reduced thermal runaway possibilities
- Good performance under critical ambient temperature conditions

## APPLICATIONS





# FLOODED RANGE

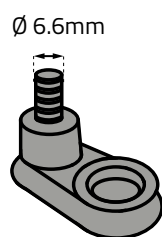
High performance & resistance



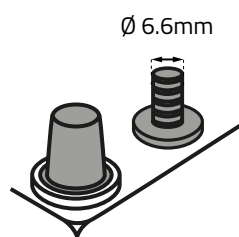
| Designation | P/N    | Box size | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (5Hr) | Reserve capacity (capacity minutes) |            | Dimensions (±2mm) |     |     |              | Polarity | Terminal |
|-------------|--------|----------|-------------|--------------------|-------------------|-------------------------------------|------------|-------------------|-----|-----|--------------|----------|----------|
|             |        |          |             |                    |                   | @25A (min)                          | @75A (min) | L                 | W   | H   | Total height |          |          |
| FDC-605     | 593001 | GC2      | 6           | 210                | 175               | 383                                 | 105        | 259               | 179 | 245 | 276          |          | EHPT     |
| FDC-105     | 593002 | GC2      | 6           | 225                | 185               | 447                                 | 115        | 259               | 179 | 245 | 276          |          | EHPT     |
| FDC-125     | 593003 | GC2      | 6           | 240                | 195               | 488                                 | 132        | 259               | 179 | 245 | 276          |          | EHPT     |
| FDC-305     | 593037 | 902      | 6           | 330                | 271               | 711                                 | 195        | 296               | 176 | 343 | 366          |          | DUAL     |
| FDC-L16     | 593036 | 903      | 6           | 420                | 344               | 850                                 | 220        | 296               | 176 | 402 | 425          |          | DUAL     |
| FDC-875     | 593005 | GC8      | 8           | 170                | 145               | 295                                 | 75         | 262               | 181 | 245 | 276          |          | EHPT     |
| FDC-1275    | 593007 | GC12     | 12          | 150                | 120               | 280                                 | 70         | 329               | 181 | 245 | 276          |          | EHPT     |

Watering kits available for GC2, GC8 and GC12 batteries - p.10

## TERMINAL CONFIGURATIONS

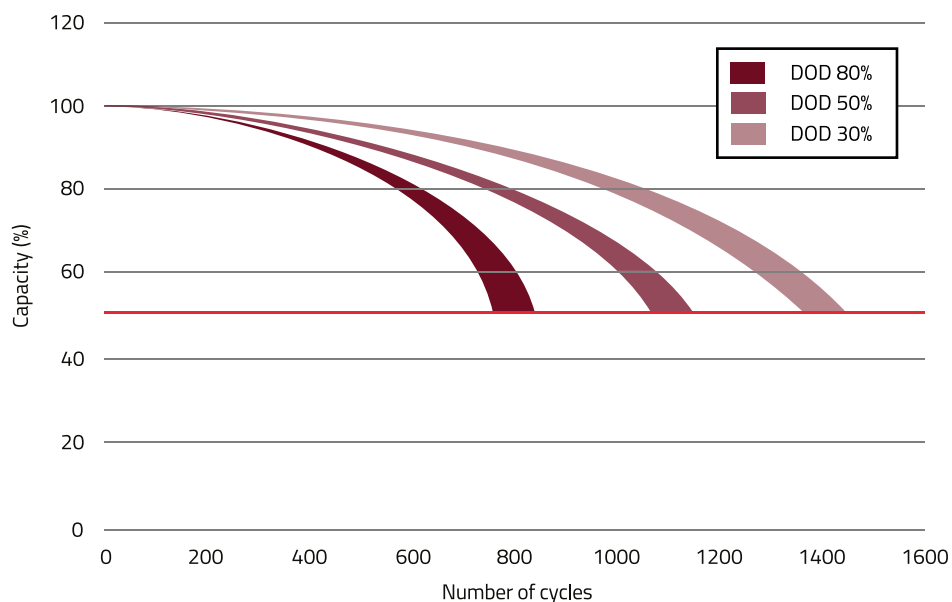


Terminal height:  
38mm  
Torque values:  
11 – 12nm  
Bolt terminal:  
M8



Bolt terminal:  
M8

## CYCLE LIFE



# TUBULAR RANGE

High discharge capability

FDCT Tubular Series are Deep cycle liquid electrolyte batteries specially designed for demanding applications requiring long service, high cycling performance and intensive discharge requirements. Built with positive tubular armor plates, the FDCT range delivers very high discharge capability and increased endurance, even under poor charging conditions.

## GENERAL INFORMATION

- Technology: TUBULAR
- Available voltages: 6V, 12V
- Capacity: 120Ah-240Ah
- Cycle life:
  - Up to 1500 cycles at 80% DOD\* (50% capacity @20°C)
  - Up to 2400 cycles at 50% DOD\* (50% capacity @20°C)
- Case material: Polypropylene

*\*Depth Of Discharge*



## FEATURES

- Excellent tubular plate construction with free electrolyte ensures long operating life
- Very high cycling performance: Up to 1200 cycles (EN 60254-1 / 25°C - for traction battery)
- High discharge capability
- Excellent vibration resistance
- Increased endurance even in cases of poor charging conditions
- High productivity under severe working conditions

## APPLICATIONS





# TUBULAR RANGE

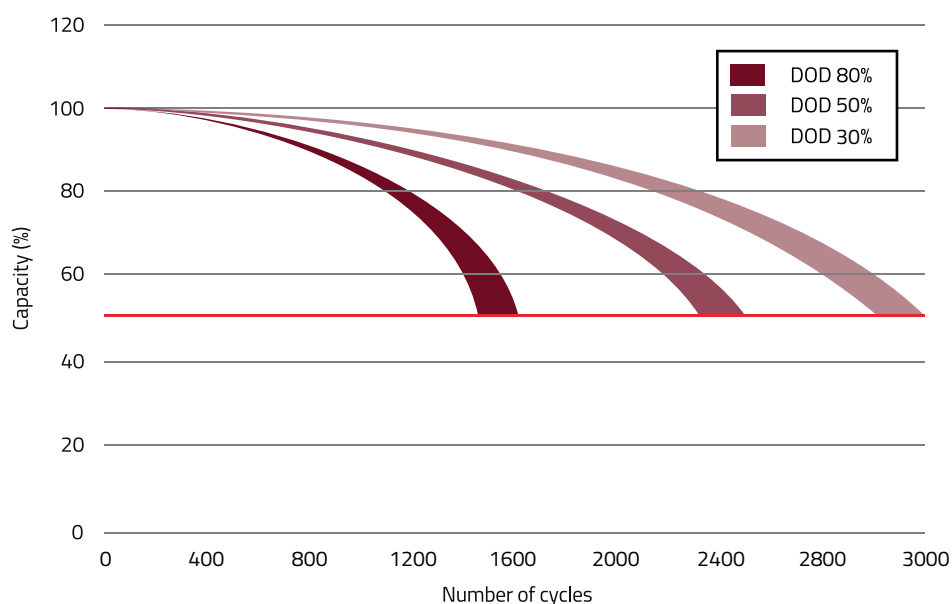
High discharge capability

| Designation | P/N    | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (5Hr) | Reserve capacity (capacity minutes) |            | Dimensions (±2mm) |     |     |              | Polarity                                                                            | Terminal |
|-------------|--------|-------------|--------------------|-------------------|-------------------------------------|------------|-------------------|-----|-----|--------------|-------------------------------------------------------------------------------------|----------|
|             |        |             |                    |                   | @25A (min)                          | @75A (min) | L                 | W   | H   | Total height |                                                                                     |          |
| FDCT6-185   | 593039 | 6           | 240                | 185               | 480                                 | 123        | 243               | 192 | 267 | 282          |  | AUTO     |
| FDCT12-120  | 593040 | 12          | 140                | 120               | 292                                 | 65         | 344               | 175 | 263 | 285          |  | AUTO     |

## TERMINAL CONFIGURATIONS



## CYCLE LIFE



# AGM CARBON RANGE

Non-spillable & maintenance free

FDC AGM Carbon Series are Deep Cycle batteries, maintenance free and non-spillable, specifically designed for frequent discharge deep cycle applications. With strong industrial design, FDC AGM Carbon Series are robust and ensure a maximum service life with high resistance to cycles and also low self-discharge. The carbon additive makes them perform at a high level in case of partial state of charge (PSOC).

## GENERAL INFORMATION

- Technology: AGM (VRLA)
- Available voltages: 6V, 8V, 12V
- Capacities from 15Ah to 400Ah
- Cycle life:
  - Up to 750 cycles at 80% DOD\* (50% capacity @20°C)
  - Up to 1400 cycles at 50% DOD\* (50% capacity @20°C)
- Case material: polypropylene

\*Depth Of Discharge



NON-SPILLABLE

CARBON ADDITIVE

## FEATURES

- Non-spillable & maintenance free
- No acid handling
- Deep cycle design for high capacity and maximum life
- Reinforced grid/plates design for optimal cyclic use
- Carbon additives to perform in partial state of charge (PSOC) and to increase charging efficiency
- No stratification phenomenon
- Robust, safe & reliable
- Low self-discharge rate for longer shelf life

## APPLICATIONS





# AGM CARBON RANGE

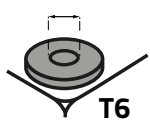
Non-spillable & maintenance free



| Designation | P/N    | Box size | Voltage (V) | Capacity Ah (20Hr) | Capacity Ah (5Hr) | Reserve capacity (capacity minutes) |            | Dimensions (±2mm) |       |       |              | Polarity | Terminal |
|-------------|--------|----------|-------------|--------------------|-------------------|-------------------------------------|------------|-------------------|-------|-------|--------------|----------|----------|
|             |        |          |             |                    |                   | @25A (min)                          | @75A (min) | L                 | W     | H     | Total height |          |          |
| FDC6-225    | 593019 | GC2      | 6           | 225                | 192               | 490                                 | 135        | 259               | 180   | 247   | 253          | ⊖ ⊕      | T11      |
| FDC6-245    | 593010 | -        | 6           | 245                | 210               | 530                                 | 145        | 243               | 187.5 | 275   | 275          | ⊕ ⊖      | T11      |
| FDC6-265    | 593027 | GC2      | 6           | 268                | 230               | 620                                 | 165        | 262               | 180   | 263   | 268          | ⊖ ⊕      | T11      |
| FDC6-350    | 593011 | 902      | 6           | 350                | 305               | 820                                 | 240        | 295               | 180   | 346   | 368          | ⊖ ⊕      | DUAL     |
| FDC6-400    | 593012 | 903      | 6           | 400                | 342               | 925                                 | 265        | 295               | 180   | 406   | 428          | ⊖ ⊕      | DUAL     |
| FDC8-170    | 593026 | GC8      | 8           | 170                | 145               | 325                                 | -          | 260               | 180   | 252   | 274          | ⊕ ⊖      | DUAL     |
| FDC12-14    | 593022 | -        | 12          | 15                 | 13.5              | -                                   | -          | 151.5             | 99.5  | 95.5  | 98.2         | ⊕ ⊖      | T12      |
| FDC12-24    | 593013 | -        | 12          | 25                 | 22.6              | -                                   | -          | 181.5             | 77    | 170   | 170          | ⊖ ⊕      | T12      |
| FDC12-39    | 593030 | -        | 12          | 39                 | 35                | -                                   | -          | 195               | 130   | 167   | 167          | ⊕ ⊖      | T6       |
| FDC12-43    | 593031 | -        | 12          | 43                 | 34                | -                                   | -          | 267.5             | 77.5  | 171   | 171          | ⊖ ⊕      | T12      |
| FDC12-46    | 593020 | -        | 12          | 53                 | 44                | -                                   | -          | 197               | 166   | 170   | 170          | ⊖ ⊕      | T6       |
| FDC12-55    | 593033 | -        | 12          | 55                 | 48                | -                                   | -          | 223               | 123   | 172   | 175          | ⊕ ⊖      | T6       |
| FDC12-60    | 593025 | -        | 12          | 68                 | 57                | -                                   | -          | 229               | 138   | 216.5 | 216.5        | ⊖ ⊕      | T6       |
| FDC12-75L   | 593038 | -        | 12          | 76                 | 65                | 137                                 | -          | 260               | 168   | 173   | 176          | ⊕ ⊖      | T6       |
| FDC12-75    | 593021 | -        | 12          | 82                 | 71                | 160                                 | -          | 260               | 168   | 208   | 214          | ⊕ ⊖      | T6       |
| FDC12-90    | 593014 | 24       | 12          | 90                 | 77                | 175                                 | 43         | 260               | 168   | 208   | 232.5        | ⊕ ⊖      | DUAL     |
| FDC12-90    | 593029 | 24       | 12          | 90                 | 77                | 175                                 | 43         | 260               | 168   | 208   | 214          | ⊕ ⊖      | T11      |
| FDC12-105   | 593018 | 27       | 12          | 108                | 96                | 220                                 | 55         | 306               | 168   | 208   | 232.5        | ⊕ ⊖      | DUAL     |
| FDC12-105   | 593023 | 27       | 12          | 108                | 96                | 220                                 | 55         | 306               | 168   | 208   | 214          | ⊕ ⊖      | T11      |
| FDC12-115   | 593015 | 31       | 12          | 118                | 107               | 239                                 | 65         | 330               | 173   | 212   | 220          | ⊕ ⊖      | T11      |
| FDC12-145   | 593016 | -        | 12          | 148                | 122               | 308                                 | 88         | 340               | 172   | 280   | 286          | ⊕ ⊖      | T11      |
| FDC12-150   | 593017 | GC12     | 12          | 150                | 136               | 323                                 | 90         | 327               | 180   | 274   | 274          | ⊕ ⊖      | T11      |
| FDC12-180   | 593028 | -        | 12          | 180                | 162               | 395                                 | 108        | 483               | 170   | 238.5 | 238.5        | ⊕ ⊖      | T11      |

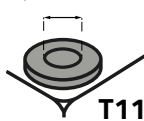
## TERMINAL CONFIGURATIONS

Ø 4.9mm



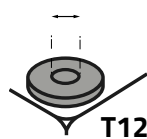
**Threaded terminal:**  
M6

Ø 6.6mm



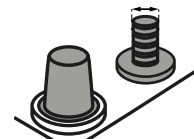
**Threaded terminal:**  
M8

Ø 4.3mm



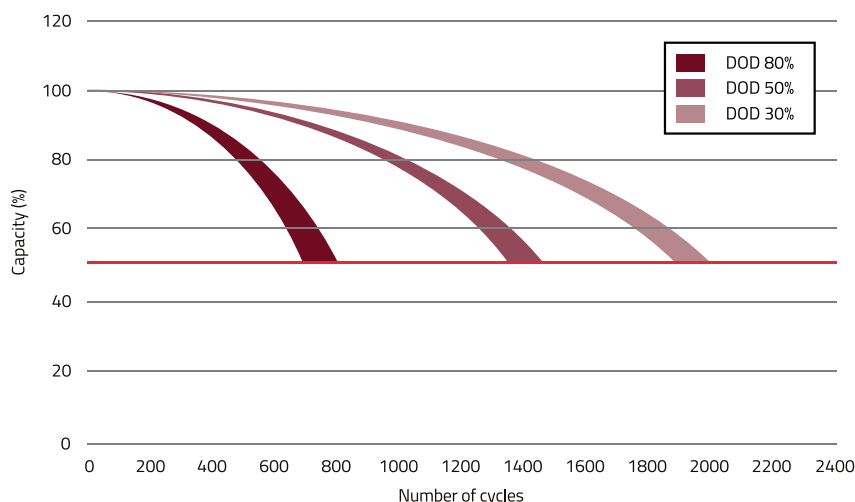
**Threaded terminal:**  
M5

Ø 6.6mm



**Bolt terminal:**  
M8

## CYCLE LIFE



# LITHIUM RANGE

High performance & lightweight

FDC Lithium Series are LiFePO<sub>4</sub> batteries, that offer exceptional performance. Including an intelligent built-in Battery Management System (BMS) & CANbus connection to monitor the battery's status, these LiFePO<sub>4</sub> batteries provide an extra layer of protection, ensuring prolonged battery life. FDC Deep Cycle Lithium Series is designed to be a long-lasting, maintenance-free, lightweight and drop-in replacement option for Lead Acid batteries.

## GENERAL INFORMATION

- ⚡ Technology: LiFePO<sub>4</sub>
- ⚡ Available voltages: 25.6V to 51.2V
- ⚡ Capacities from 30Ah to 200Ah
- ⚡ Cycle life:
  - FDC-CM
    - » Up to 3000 cycles at 80% DOD\* (50% capacity @20°C)
    - » Up to 4500 cycles at 50% DOD\* (50% capacity @20°C)
  - FDC-GC2-48 / FDC51-105
    - » Up to 6000 cycles at 80% DOD\* (50% capacity @20°C)
    - » Up to 7500 cycles at 50% DOD\* (50% capacity @20°C)
- ⚡ Case material: A.B.S. / Powder Coated Steel

\*Depth Of Discharge



## FEATURES

- ⚡ Smart BMS (Battery Management System) self-protects against short circuits, overheating, overcharge, overdischarge and over-current
- ⚡ Fast charge: under 4 hours
- ⚡ 2-3X the lifetime of flooded lead acid batteries
- ⚡ Acid-free design takes away corrosion, acid drips and charging fumes
- ⚡ CAN Bus Communication (optional)

## APPLICATIONS



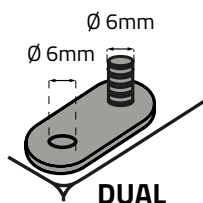


# LITHIUM RANGE

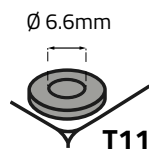
High performance & lightweight

| Designation  | P/N    | Box size | Voltage (V) | Capacity Ah (5Hr) | Reserve capacity (capacity minutes) |            | Dimensions (±2mm) |     |     |              | Polarity                                                                            | Terminal |
|--------------|--------|----------|-------------|-------------------|-------------------------------------|------------|-------------------|-----|-----|--------------|-------------------------------------------------------------------------------------|----------|
|              |        |          |             |                   | @25A (min)                          | @75A (min) | L                 | W   | H   | Total height |                                                                                     |          |
| FDC-CM24-100 | 593990 | -        | 25.6        | 100               | -                                   | -          | 330               | 340 | 223 | 223          |  | T11      |
| FDC-CM24-150 | 593991 | -        | 25.6        | 150               | -                                   | -          | 333               | 526 | 223 | 223          |  | T11      |
| FDC-CM24-200 | 593992 | -        | 25.6        | 200               | -                                   | -          | 333               | 526 | 223 | 223          |  | T11      |
| FDC-CM36-150 | 593993 | -        | 35.2        | 150               | -                                   | -          | 490               | 360 | 240 | 240          |  | T11      |
| FDC-CM48-200 | 593994 | -        | 48          | 200               | -                                   | -          | 530               | 370 | 273 | 273          |  | T11      |
| FDC-GC2-48   | 592513 | GC2      | 51.2        | 30                | 72                                  | -          | 260               | 180 | 250 | 272          |  | DUAL     |
| FDC51-105    | 592514 | -        | 51.2        | 105               | -                                   | -          | 500               | 343 | 268 | 268          |  | T11      |

## TERMINAL CONFIGURATIONS



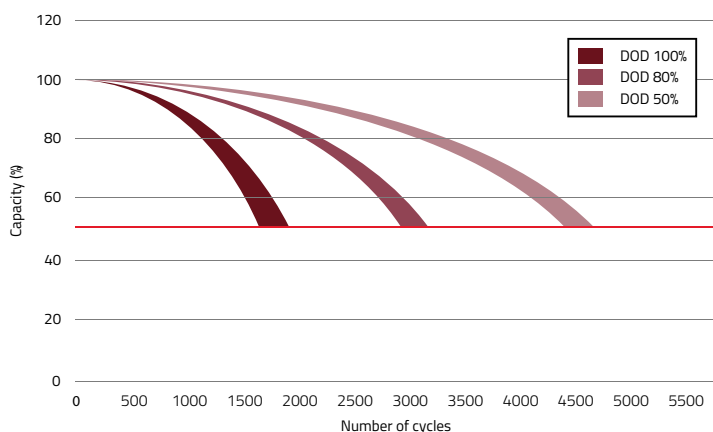
**Bolt terminal:**  
M8



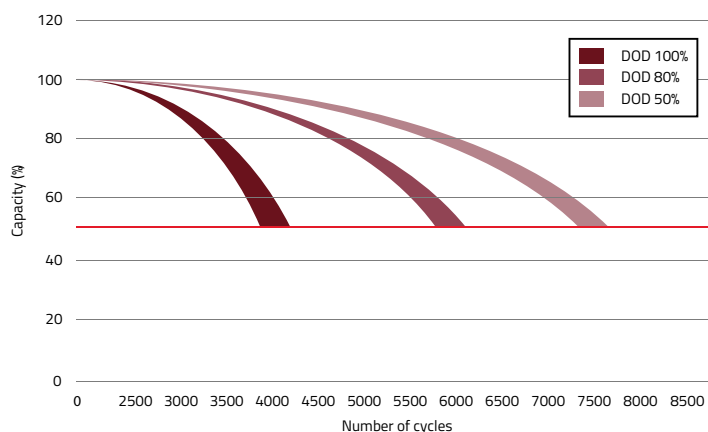
**Threaded terminal:**  
M8

## CYCLE LIFE

FDC-CM



FDC-GC2-48 / FDC51-105



## WATERING KITS

This watering kit simplifies the upkeep of flooded batteries and ensures they are filled to the ideal water level! By automating the watering process, this system boosts efficiency, safety, and battery longevity. These advantages translate into both time and cost savings!



| Designation            | Watering kit<br>24V (4x6V)                                                                   | Watering kit<br>36V (6x6V)                                                                   | Watering kit<br>48V (8x6V)                                                                   | Watering kit<br>48V (6x8V)                                                                     | Watering kit<br>48V (4x12V)                                                                    |
|------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| P/N                    | 750556                                                                                       | 750557                                                                                       | 750558                                                                                       | 750559                                                                                         | 750560                                                                                         |
| System voltage (V)     | 24V                                                                                          | 36V                                                                                          | 48V                                                                                          | 48V                                                                                            | 48V                                                                                            |
| Battery voltage (V)    | 6V                                                                                           | 6V                                                                                           | 6V                                                                                           | 8V                                                                                             | 12V                                                                                            |
| Premounted plugs       | <br>x4pcs | <br>x6pcs | <br>x8pcs | <br>x6pcs | <br>x4pcs |
| End stoppers           | <br>x2pcs |                                                                                              |                                                                                              |                                                                                                |                                                                                                |
| All-in-one couple male | <br>x1pc  |                                                                                              |                                                                                              |                                                                                                |                                                                                                |
| PVC tube               | <br>x1pc  |                                                                                              |                                                                                              |                                                                                                |                                                                                                |

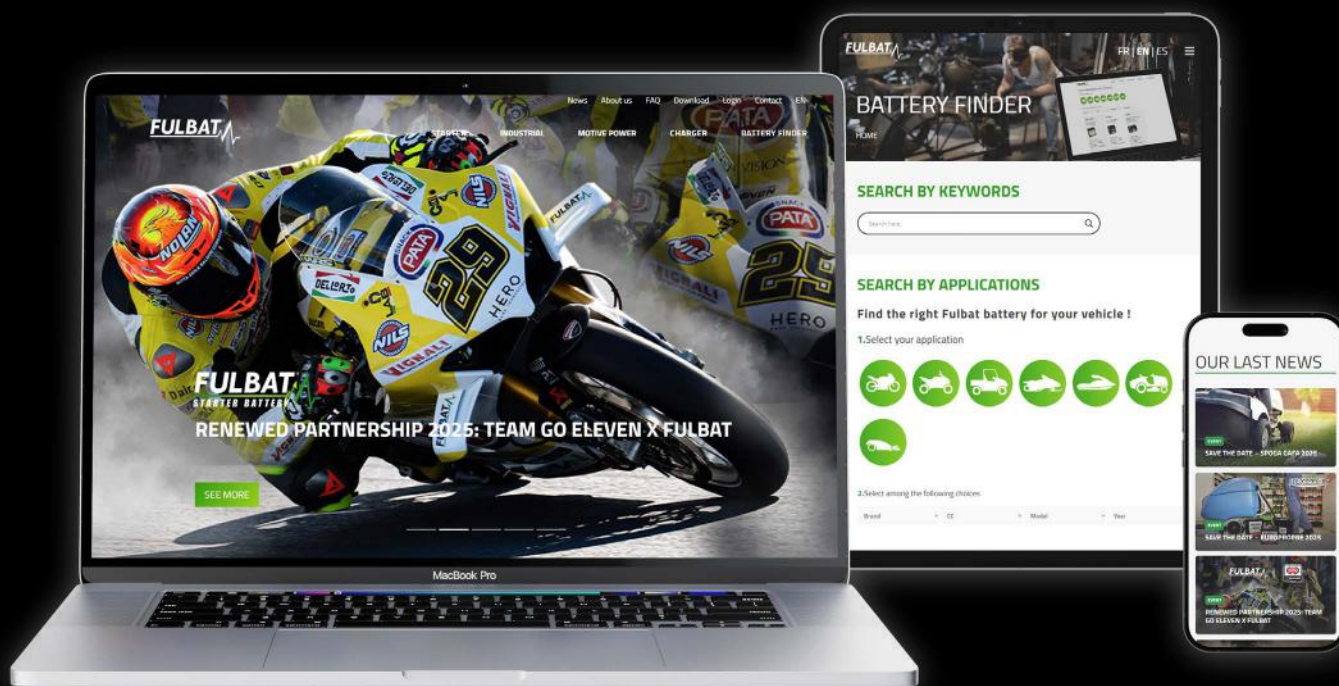
End stoppers to be placed on a 6mm tube or on an all-in-one male connector.

1. A decompression valve for the system activates when the user fills the batteries under pressure exceeding 1 bar.
2. An integrated filter can be cleaned by simply pressing on the valve inlet (when the connection still contains water).
3. A flow indicator (yellow balls rotating around the filter) during battery filling.
4. Two outlets for 6mm hose, enabling closed-loop mounting of the filling circuit on the battery.

Diameter: 6mm  
Thickness: 1.5mm  
Length: 3m







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[www.fulbat.com](http://www.fulbat.com)