



DESCRIPTION:

The Barcelona (MNBCLNA-PW) is the most powerful and versatile systems in its class. Ideal for large size stand alone and grid-tied renewable energy systems.

PRODUCT FEATURES

- 200 amp 48V output
- 100A per MPPT output
- Includes 2 MNSPD-600 (surge protection device)
- Min VOC is 220 volts
- Ideal VOC 300-600 volts
- MPPT Window 185 to 585 volts
- Dual independent tracking
- Ideal for larger DC coupled battery based on-grid and off-grid installations

- Talking MNGP2 display (Canbus) No other display required when coupled with MidNite inverters and other MidNite products
- Rotary knob with push button for ease of navigating menus
- Barcelona Breaker Box (MNBCLNA BB) protects against excessive battery voltage excursions
- The MNGP2 graphics and programming module allows communication, monitoring and programming of all future MidNite products from a single unit.
- Die cast aluminum enclosure
- Optional plug in AF/GF module
- Optional plug in Sunspec compliant Rapid Shutdown transmitter (module or string level)
- BTS included
- 2 Auxiliary outputs
- Quiet fan cooled. Fans relatively easy to replace
- Companion to the 7000 watt Rosie inverter
- Two PV inputs track independently
- Safety certifications: UL1741 and CE low voltage directive EN50178
- 5 year warranty
- Designed and assembled in the USA

SPECIFICATIONS

Barcelona Pre-wired System - MNBCLNA-PW

Nominal Battery Voltage	48V
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Maximum Output Current	200 amps 2 X 100 Amps, independent
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PV Open Circuit Voltage VOC	600VDC
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Power Conversion Efficiency	98% (Typical system)
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Arc Fault and NEC 2020	Optional plugin modules - user installed
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Ground Fault Protection	
Charging Regulation	Bulk, Absorb, Float as well as Equalization
Battery Voltage Regulation Set Points	40V to 65V
Equalization Charging	Adjustable voltage and duration
Battery Over Voltage	Fully protected. The optional Barcelona Breaker Box (MNBCLNA BB) automatically trips PV input breaker if battery exceeds 68VDC
Battery Short Circuit	Fully protected
Battery Temp Compensation	Automatic when BTS is installed. Adjustable mV per degree C per 2V cell
Programmable Auxiliary	2 auxiliary outputs
Graphic Display	MNGP2 - 64 x 122
Stacking cables for system networking	Standard CAT5 - Canbus
Communications	Canbus
Remote Display	MNGP2 can be relocated and a second display can be added
External Monitoring	Phone Application software allows local monitoring within normal blue tooth range from Barcelona.
Terminal Rating	75C
Data Logging	380 days of daily history
Positive Ground Applications	Requires 2 pole input and output breakers
Operating Temperature	Minimum of -40C to 50C (controller will auto derate as temperature rises above 25C)
Environmental Rating	Indoor type 1
Warranty	7 Years
Weight & Dimensions	66 lbs.
Shipping Dimensions	40 x 16.5 x 12 (inches)

Certifications

Listed by ETL for US & Canada