



MIDSHIRES
ELECTRICAL & LIGHTING LTD
& RENEWABLES

Building a Greener Future

**Solar PV
Catalogue**

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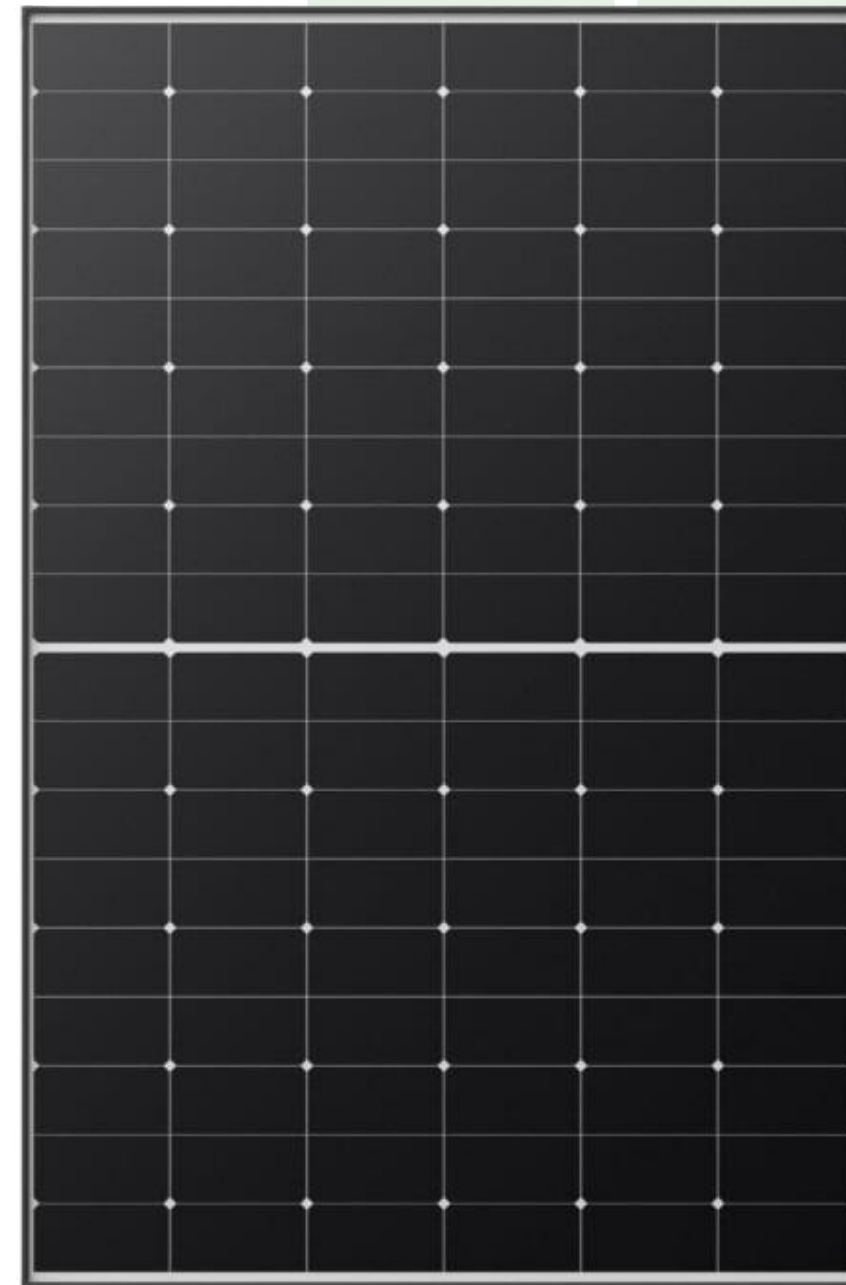
Solar Panels

LONGI Solar

HiMo6 HTH 435W Black/White Mono

Longi's black/white Hi-MO 6 Explorer 435W improves power generation capacity providing a great power to size ratio and excellent performance, achieving over 22% efficiency. The product family is suitable for both residential and C&I rooftop systems.

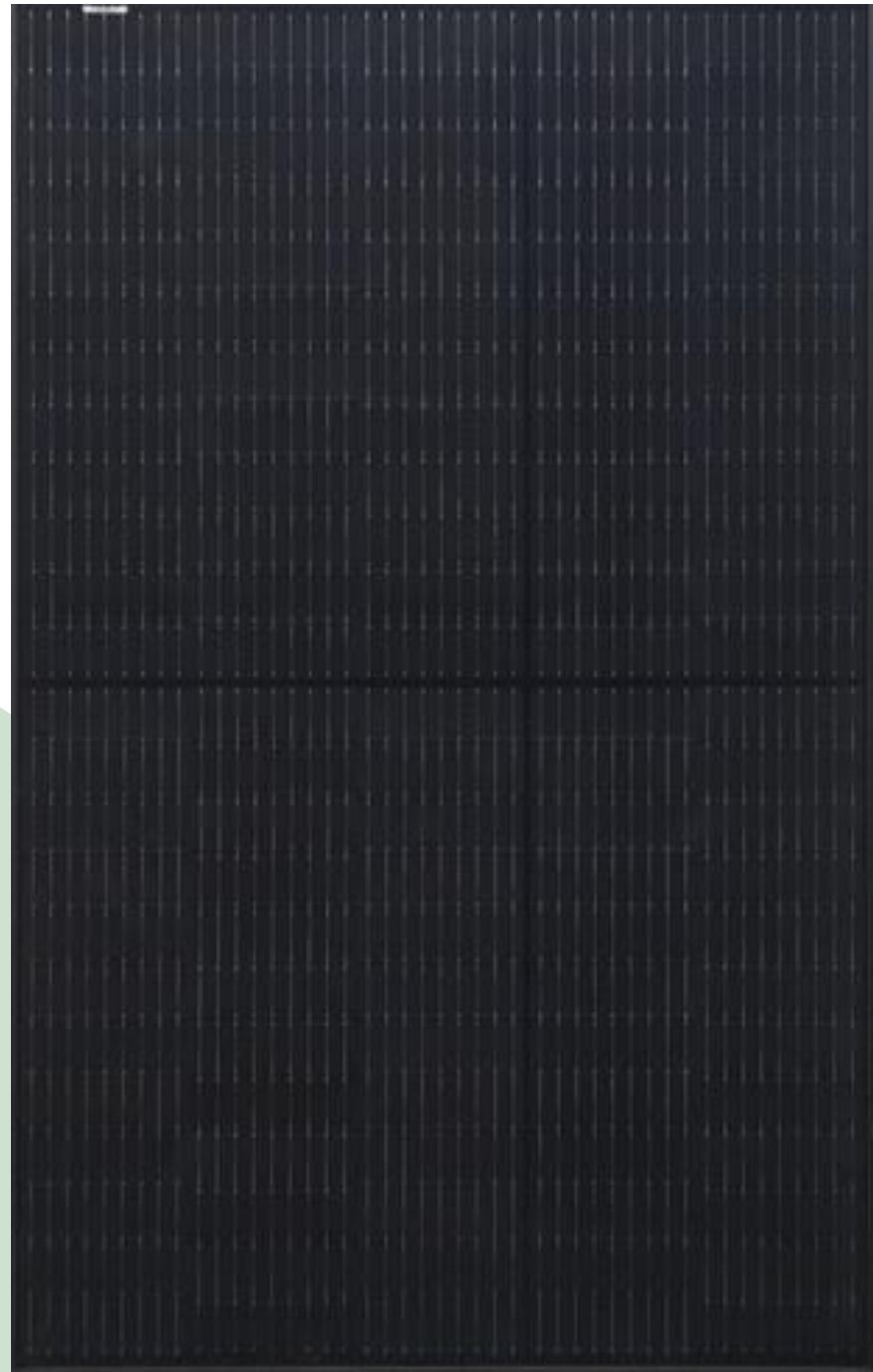
- **High-efficiency Cells** - The HPBC cell efficiency is higher than 25%.
- **Market-leading Reliability** - Hi-MO 6 pioneers the adoption of full back welding technology to effectively improve the resistance to micro cracking of modules.
- **Outstanding Performance**- Hi-MO 6 improves power generation capacity greatly with comprehensive upgrade of HPBC cells and modules.
- **Aesthetic Appearance** - Hi-MO 6 simplifies the complexity and redefines the aesthetic concept of photovoltaic module.



Solar Panels



High Performance Monocrystalline Perc Module



120 CELL Mono PERC Module

1500VDC Maximum System Voltage

385-405Wp Power Output Range

21.1% Maximum Efficiency

- Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing
- Industry leading lowest thermal co-efficient of power
- Industry leading 15 years product warranty
- Excellent low irradiance performance
- Excellent PID resistance
- Positive power tolerance of 0~+3%
- Dual stage 100% EL Inspection warranting defect-free product
- Module Imp binning radically reduces string mismatch losses
- Excellent wind load 2400Pa & snow load 5400Pa under certain installation method
- Comprehensive product and system certification

Retrofit Optimiser

Tigo[®]

TS4-A-O

Retrofit Frame Mounted Optimiser



Description

Optimisation is a Flex MLPE function available as an integrated modular junction box base (TS4-O) or as an add-on unit (TS4-A-O). Design using unequal string lengths, mixed orientations, or areas of mismatch. Install in shaded areas with a reduced setback ratio. In addition to optimisation, the TS4-A-O enables module level monitoring, and rapid shutdown in compliance with NEC 2014, 2017, 2020.

Functions

- Optimisation
- Monitoring
- Rapid Shutdown

Features and benefits

- Suitable for up to 700W solar modules
- The higher performance optimiser with Predictive IV Technology (PIV)
- The ONLY optimiser with selective deployment
- Includes the benefits of Safety & Monitoring
- Meets US NEC rapid shutdown requirements
- Optimises right out of the box
- Shade and age tolerance to maximize lifetime yield
- Works wirelessly with the TAP & CCA
- 25-year warranty

Solar Inverters



Single Phase

Solax Single Phase

X1 (0.7, 1.1, 1.5, 2.0, 2.5, 3.0, 3.3)



- Online monitoring
- Remote upgrade and control
- Max. DC Input 14A per string

Solax Single Phase Hybrid

X1 G4- Hybrid (3.7, 5.0, 6.0) D



- USupports up to 150% over-sizing
- Fast charging and high power discharge
- Remote units control & upgrading function
- Working under extremely cold condition
- On & Off grid parallel use
- Unbalanced output supported

Three Phase

Solax Three Phase Hybrid

X3 - Hybrid (12.0, 15.0) D



- USupports up to 150% over-sizing
- Fast charging and high power discharge
- Remote units control & upgrading function
- Working under extremely cold condition
- On & Off grid parallel use
- Unbalanced output supported

Battery Storage



T-BAT-SYS-HV-3.0

T-BAT H 3.0 / T-BAT H 6.0 / T-BAT H 9.0 / T-BAT H 12.0



Safety

- Prevent battery over-discharge with auto power replenishment technology
- Utilise LiFePO4 battery type and high-performance processors

User-Friendly

- Easy installation with a modular stacking design
- Suitable for indoor/outdoor installation with floor mounting support (IP65 rated)

Reliability

- Long life cycle of over 6000 cycles
- Capable of operating at low temperatures due to unique heating technology

Monitoring

- Remote fault diagnosis
- Accessible through app or web portal



In-Roof Solutions



Clearline Fusion

Why choose Clearline Fusion?

Economical - price comparable with above-roof installation

Rapid - push-fit connections create weather-tight and secure fixing

Compact - industry leading panel spacing packs in more power

Sleek - invisible clamps for uncluttered aesthetic

Simple - no need for roof modifications

Robust - wind resistance is more than four times higher than competitor products

Universal - works with slate and tile

M10 Monocrystalline:

- Highest power panel with a 405Wp output.
- Features black backing sheet and frame for premium aesthetics.
- Size: 1,134mm x 1,722mm.
- Efficiency: 21.5%.

G1 Monocrystalline:

- Available in 335Wp (black backing sheet) or 340Wp (white backing sheet).
- Offers slightly lower power density compared to M10 panels.
- Compact design may maximise total power output on certain roofs.
- Size: 1,000mm x 1,686mm.
- Efficiency: 20.7% / 21.0%.

Hidden Fixtures for clean aesthetic

Extends to any number of columns and rows

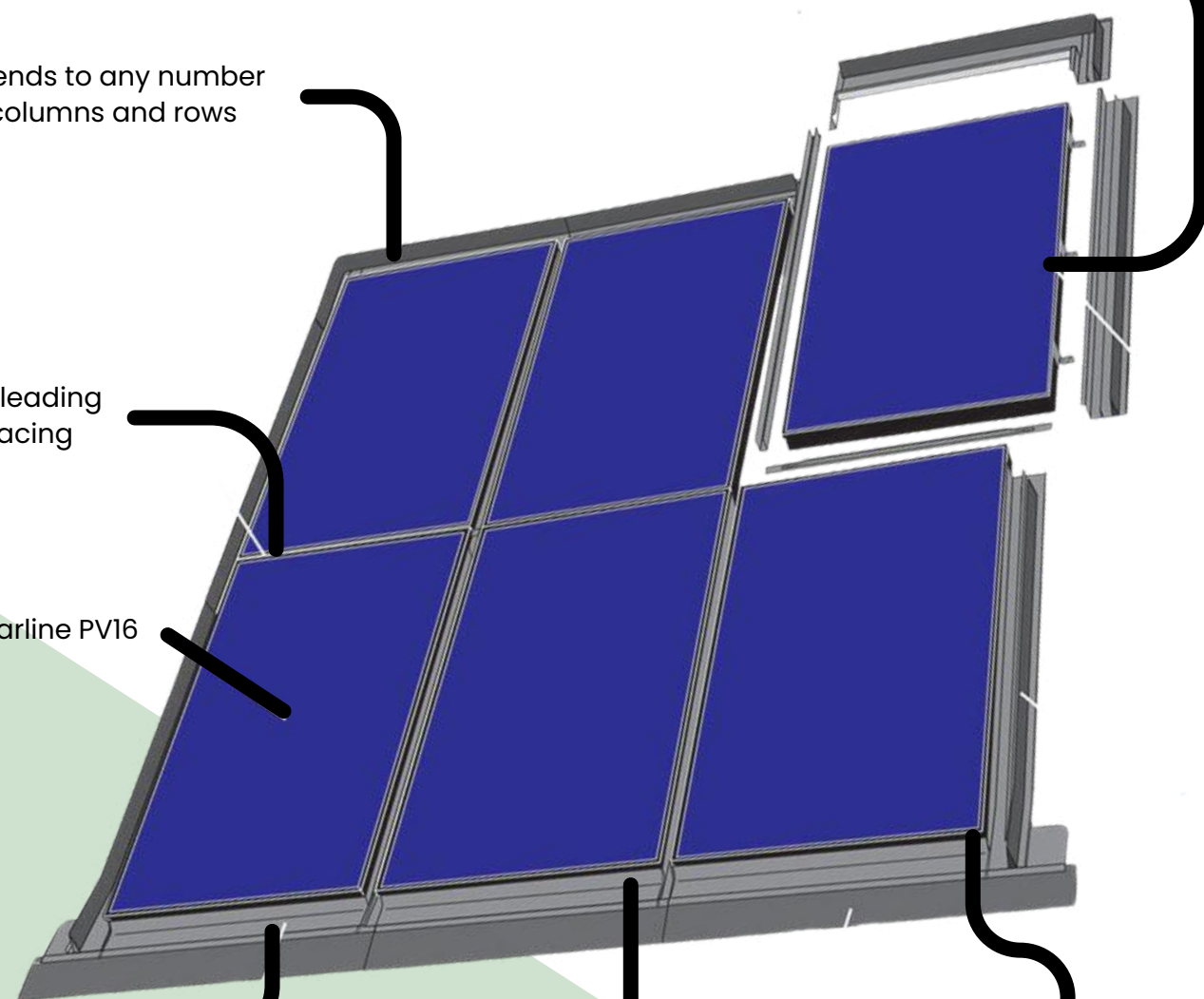
Industry leading 5mm spacing

Clearline PV16

Aluminium push fit flashing for durability and high fire rating

Robust corrugated lead resists wind uplift

Works with all common tiles and slates including slates over sarking



In-Roof Solutions

GSE Intégration

Benefits

Economic: the most competitive system for roof renovations and new constructions

Easy to install: 10 to 16 panels installed in 6 hours

Flexible: achieve any desired configuration type (U-Shape, pyramid, etc)

Lightweight and space-saving: 58 frames per pallet

Resistance to fire

Completely waterproof: ensures complete weathertightness of the PV system and the roof

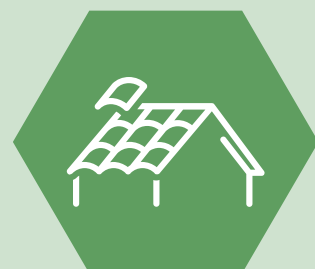
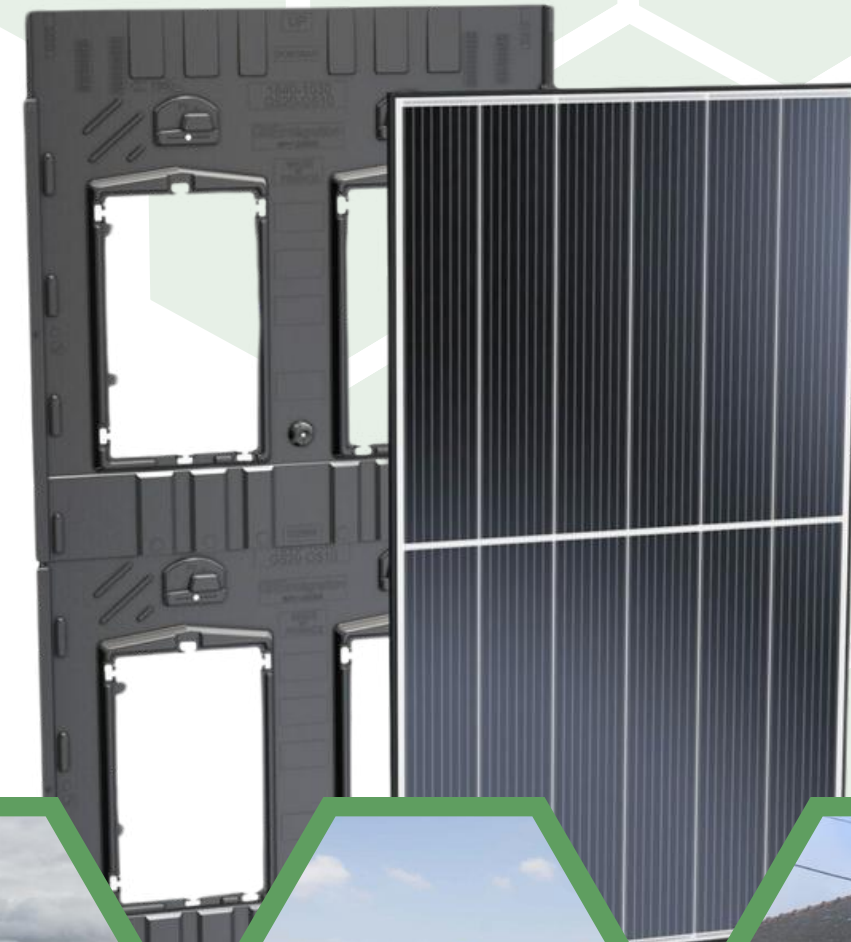
Optimal ventilation

Impact resistance

Very important mechanical resistance:

- Downward pressure: 5400 Pa (IEC 61215)
- Upward pressure: up to 5500 Pa (NF EN 12179)
- Eurocode design values: Snow: 1800 Pa, Wind: 1700 Pa

**Scan to check out the
Installation process**



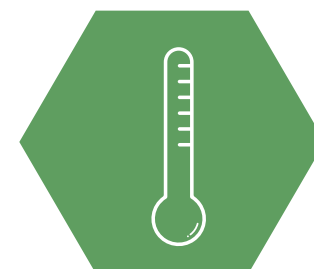
All types Roof covering



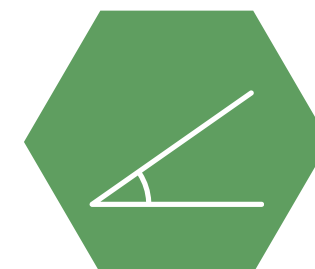
Material
PP - Aluminium - Stainless steel
(100% Recyclable)



Weight
2.8 to 3.7 kg/m²



Temperature range
-30°C to 100°C



Slope
12° to 50°



Mounting Systems

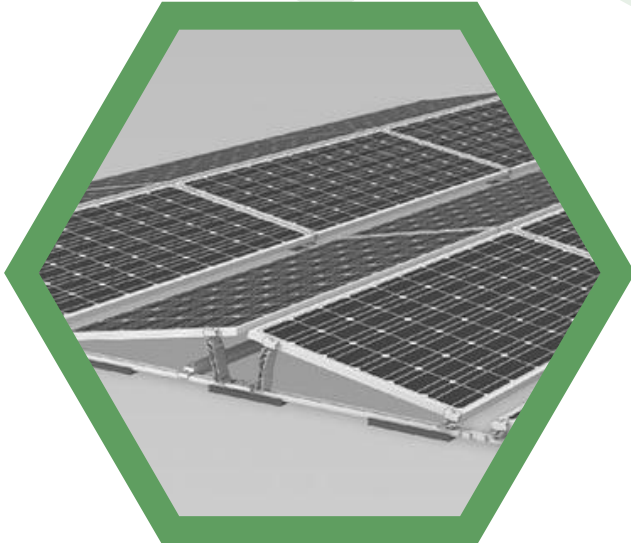


Flat Roof Solution



K2 TiltUp Vento System

Flat Roof Solution



K2 Dome 6 System

Flat Roof Solution



K2 Dome Zero System

Flat Roof Solution



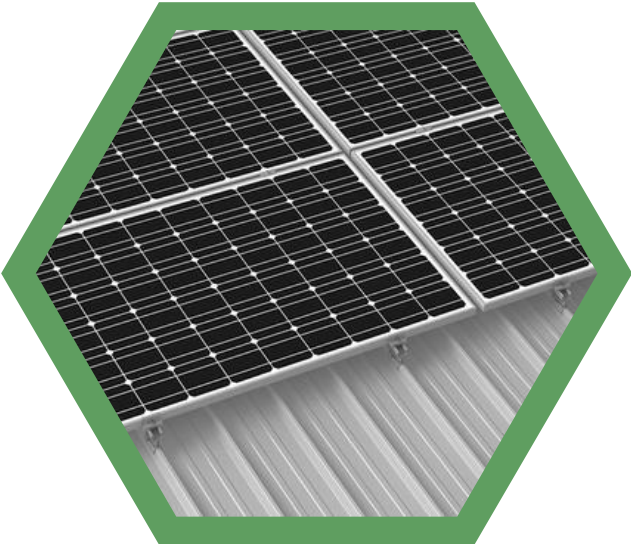
K2 MultiAngle System

Ground Solution



K2 A-Rack / P-Rack System

Pitched Roof Solution



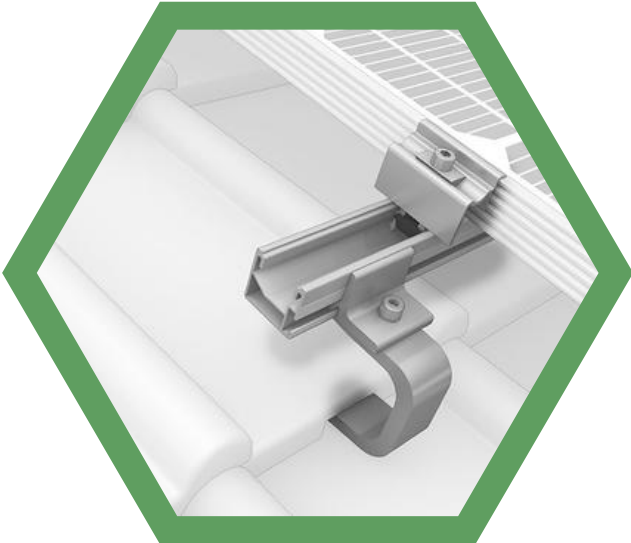
K2 Universal KL-Clamp System



Mounting Systems

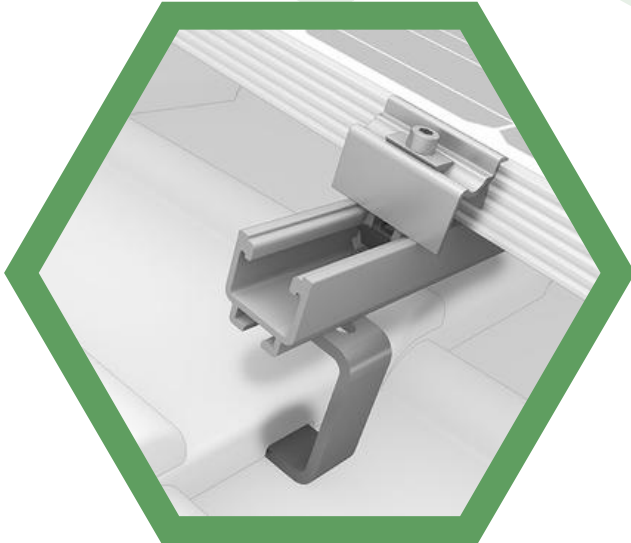


Pitched Roof Solution



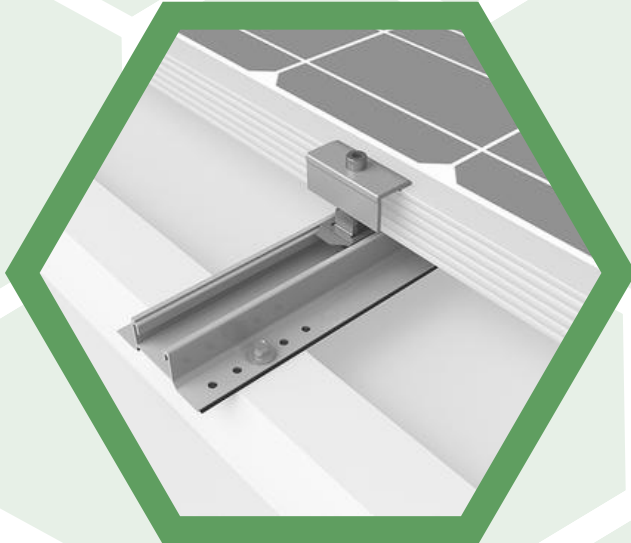
K2 SingleRail System

Pitched Roof Solution



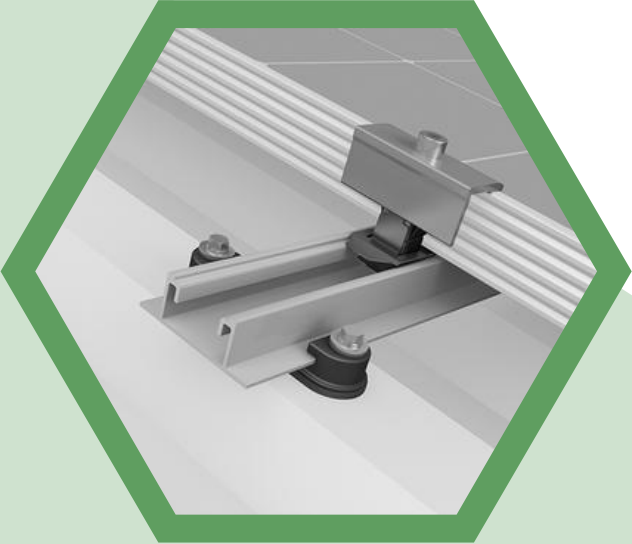
K2 SolidRail System

Pitched Roof Solution



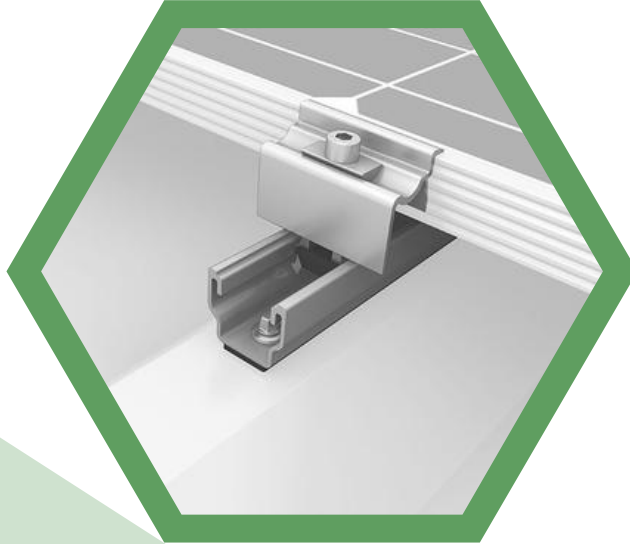
K2 MiniRail MK2 System

Pitched Roof Solution



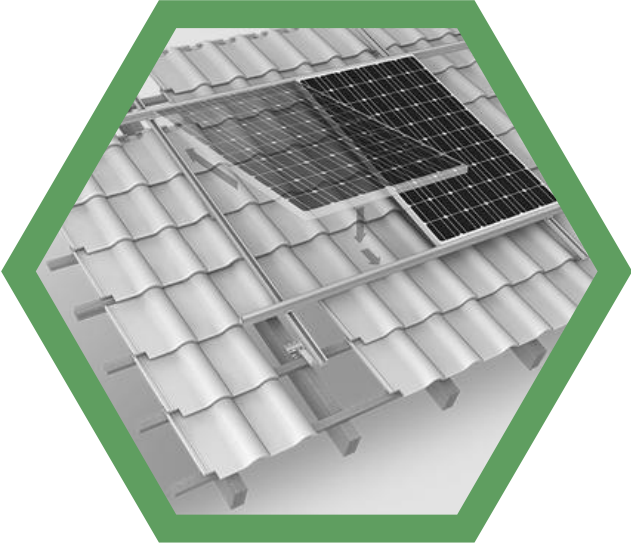
K2 BasicRail System

Pitched Roof Solution



K2 MultiRail System

Pitched Roof Solution



K2 InsertionRail System



Mounting Systems

VAN DER VALK



Flat Roof Solution



ValkPro+ L10 South

Flat Roof Solution



ValkPro+ L10 East-West

Flat Roof Solution



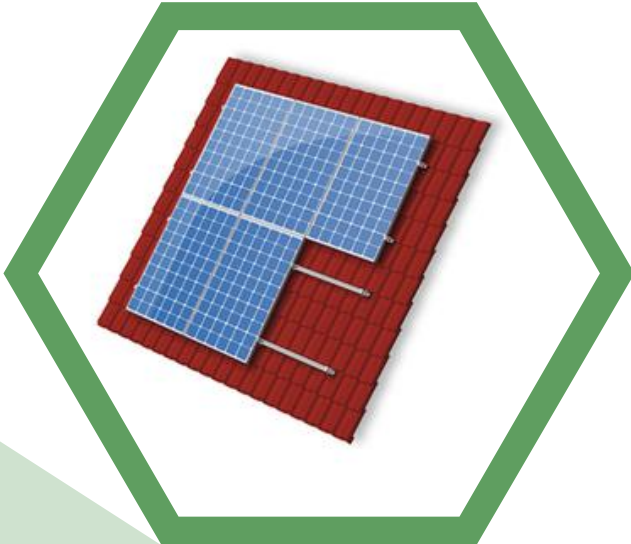
ValkPro+ P10 South

Flat Roof Solution



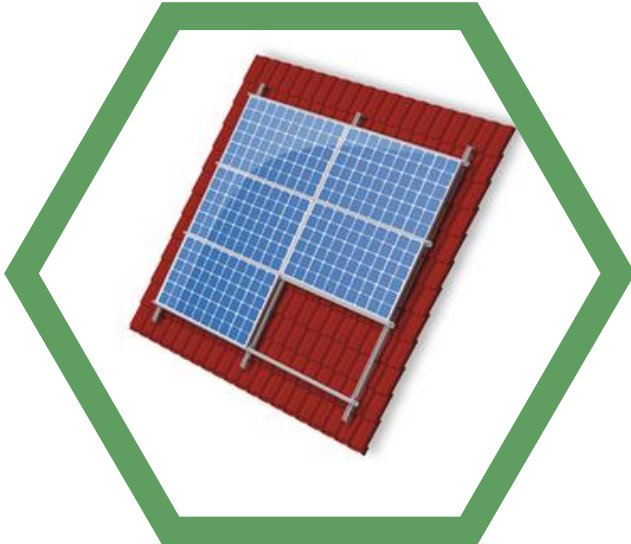
ValkPro+ P10 East-West

Pitched Roof Solution



ValkPitched - Clamp

Pitched Roof Solution



ValkPitched - Insert



Mounting Kits

VAN DER VALK



Flat Roof Solution



ValkDouble

Flat Roof Solution



ValkTriple

Flat Roof Solution



ValkQuattro

Flat Roof Solution



ValkBox3

Flat Roof Solution



ValkBox - Boltline



Accessories

Miscellaneous

niGLON



AC Rotary Isolators

niGLON



DC Rotary Isolators



Solar Cable

STÄUBLI



MC4 Connectors

emlite



Generation Meters

DELIGO



Crimping Tools



Our Manufacturers



and many more...



MIDSHIRES
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& RENEWABLES

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