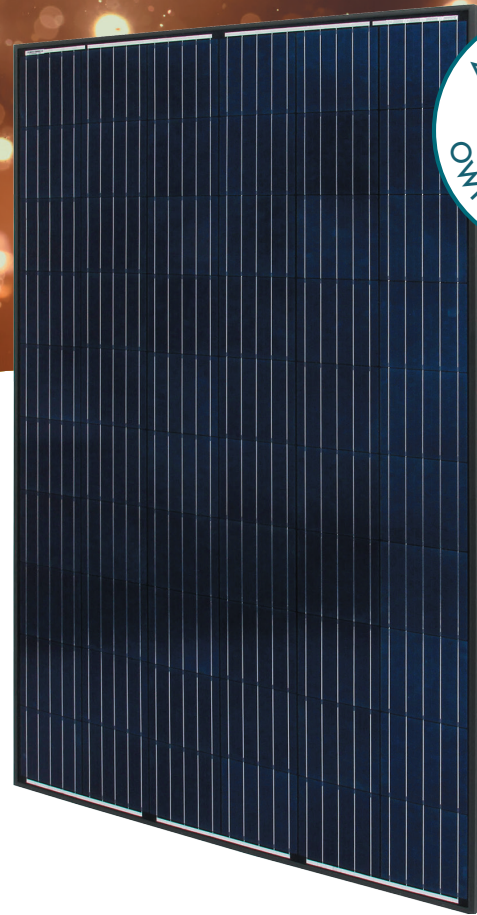




THE OBSIDIAN SERIES



BLACK FRAME, BLACK BACK SHEET

60 CELL
MULTICRYSTALLINE MODULE

270W
POWER OUTPUT RANGE

+/-5W
SORTING & BINNING TOLERANCE

PowerWave is a privately owned, independent solar brand backed by Australia's largest Online Electrical Wholesaler, Tradezone. PowerWave specialises in sourcing premium solar products from the top national and international manufacturers and combining them under a single brand. By doing so, our customers have the ability to buy a complete energy saving solution with the peace of mind that a local team and resources are standing by for the full duration of the product's life.

- Australian Owned & Operated
- Over 28 Years in business
- Reliable & Trustworthy

Powerwave's Industry renowned manufacturing partner CSG PVTech are a vertically integrated manufacturer of both Mono and Multi cell modules, ranging from 145w - 335w mono and 140w - 320w poly modules, and supply wafers, glass and OEM modules for major tier one brands below.



Comprehensive Products & System Certificates

- IEC61215/IEC61730/UL1703
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO14064: Greenhouse gases Emissions Verification
- OHSAS 18001: Occupation Health and Safety Management System



5 BUSBAR SOLAR CELL:

5 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



HIGH POWER OUTPUT:

Polycrystalline 60-cell module achieves a power output up to 275W.



LOW-LIGHT PERFORMANCE:

Advanced glass and surface texturing allow for excellent performance in low-light environments.



SEVERE WEATHER RESILIENCE:

Certified to withstand: wind load (2400Pa) and snow load (5400Pa).

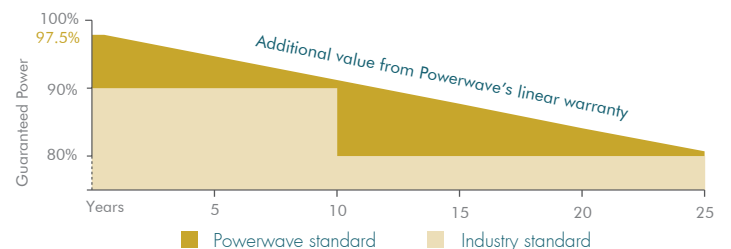


TEMPERATURE COEFFICIENT:

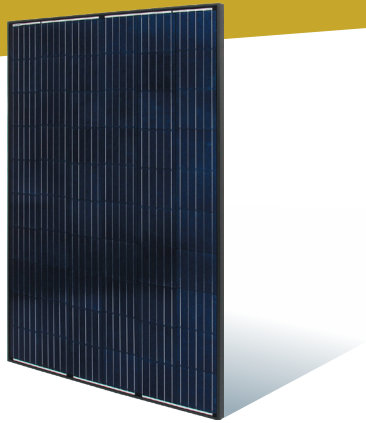
Improved temperature coefficient decreases power loss during high temperatures.

LINEAR PERFORMANCE WARRANTY

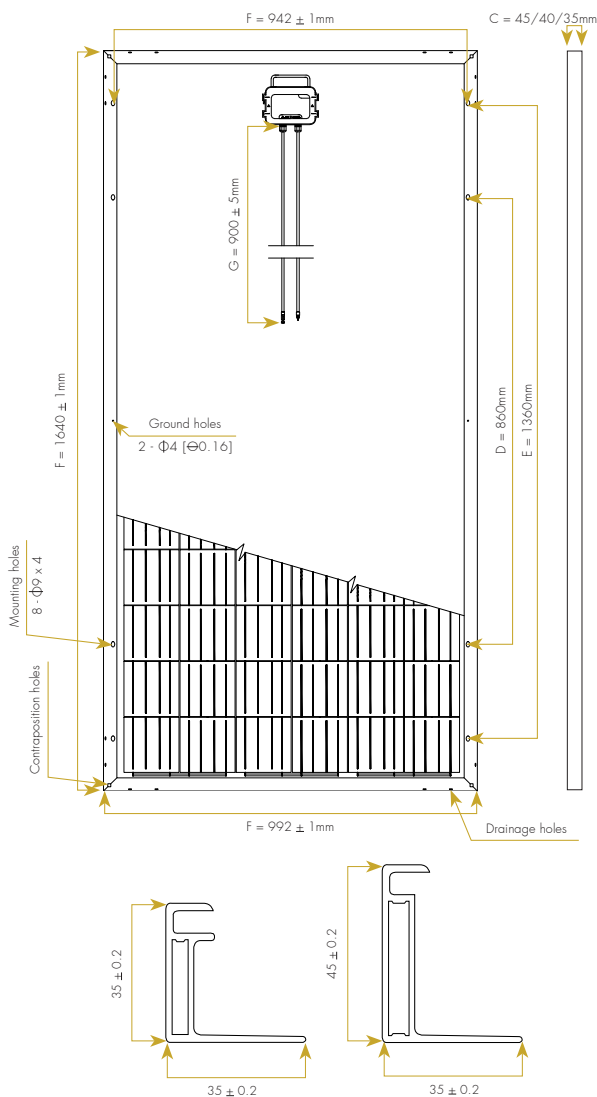
10 Year Product Warranty - 25 Year Linear Warranty



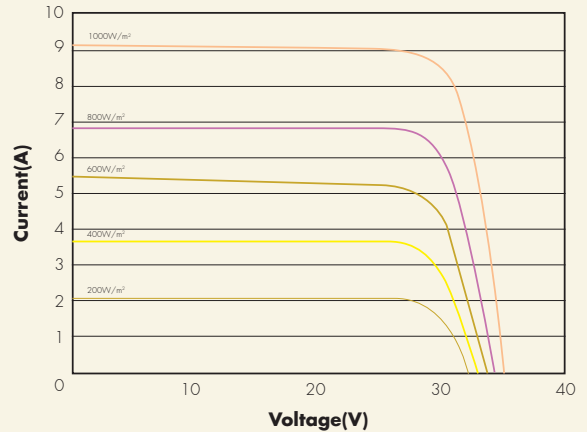
270W/275W 60 CELL POLY PANEL



High Efficiency Poly-crystalline Solar Module



I-V CURVES



I - V Curves of Powerwave module PW270M2-60 at different light power

TYPICAL ELECTRICAL CHARACTERISTICS

| | |
|--|---|
| Solar Cells | Poly-Crystalline 156.75x156.75mm 60pcs (6x10) - 5 bus bars |
| Max-power | 270 |
| Power Tolerance | - 0 to +3% |
| Sorting & Binning Tolerance | +/-5W |
| Voltage at Pmax (Vmp) | 30.8 |
| Current at Pmax (Imp) | 8.77 |
| Open-Circuit Current (Voc) | 37.9 |
| Short-Circuit Current (Isc) | 9.19 |
| Max-System Voltage (VDC) | 1000V(IEC), 600V(UL) |
| Cell Efficiency | 18.2 |
| Module Efficiency | 16.5 |
| No. of Bypass Diodes (pcs) | 3 |
| Max. Series Fuse (A) | 15A |
| Temperature Coefficient of Pmax | -0.29%/°C |
| Temperature Coefficient of Voc | -0.39%/°C |
| Temperature Coefficient of Isc | 0.04%/°C |
| Nominal Operating Cell Temperature | 45±2°C |
| *STC Conditions (1000W/m ² ; 1.5 AM and 25°C Cell temperature) | Tolerance of VOC: +3% Tolerance of ISC: +3% |

MECHANICAL CHARACTERISTICS

| | |
|---------------------------------|---|
| Cable type, Diameter and Length | Ø = 4mm ² , L = 900 ± 5mm |
| Type of Connector | PV-CO01 |
| Dimensions A x B x C | 1650 x 992 x 35mm |
| Weight | 18kg |
| No. of Draining Holes In Frame | 16 |
| Construction | Glass: High Transmission, Low Iron, Tempered Glass 3.2mm Encapsulation: EVA Back side: White |
| Junction Box | IP67 Rated |
| Frame | Clear anodized aluminum alloy type 6063T5 frame |

QUALIFICATION TEST PARAMETERS

| | |
|-------------------------------|-------------------------------|
| Dielectric Insulation Voltage | 6000VDC max |
| Operating Temperature | -40°C ~ +85 °C |
| Mechanical Load | 1600Pa |
| Hailstone impact | 25mm (1Inch) at 23m/s (52mph) |
| Fire Rating | Class C |

PACKAGING CONFIGURATION 1640 x 992 x 45mm

| | |
|-------------------------|------------------------|
| Packaging Configuration | 30pcs/box and 2pcs/box |
| Loading Capacity | 896pcs/40HQ 240pcs |

Country of Manufacture: China

ALSO AVAILABLE FROM POWERWAVE



325W 72 CELL
POLY PANEL

4.8kWh ALL IN
ONE BATTERY

4.8kWh STAND-
ALONE BATTERY