

250W

Black Gallium

Mono-Crystalline Solar Module ZX250(48)MS

One of the world's most reliable mono-crystalline panels produced using 'Gallium Cell Technology'. Recently tested by Photon Laboratory ranking first for yield output out of mono-crystalline panels. ZNSHINE's unique 'Gallium Cell Technology' increases the lifespan of its panels, reducing the rate that its cells deteriorate over time.

ZNSHINE Black panels are the perfect choice for customers who not only want a renewable energy solution but are also looking for aesthetic value.

Suitable for all types of installations from off-grid to ground-mounted and commercial rooftop systems.

Modules undergo rigorous quality control (QC) testing by MAP's independent QC team, ensuring products are of the highest quality and efficiency. All panels are fully BBA/MCS approved, insurance-backed and come equipped with the best warranties available.



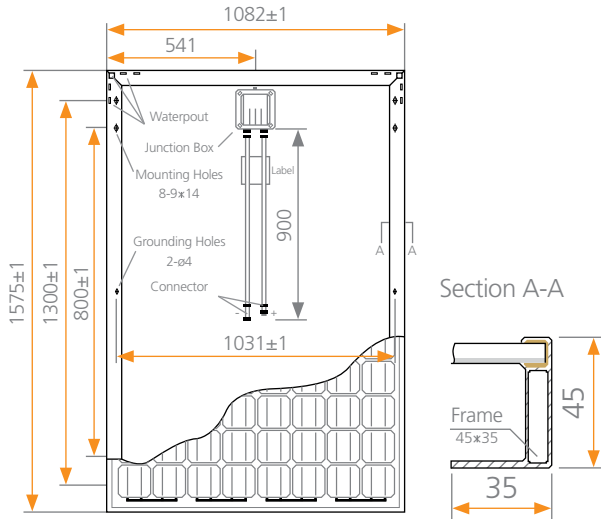
Features

- Aesthetic value
- High module conversion efficiency through 'Gallium Cell Technology' (14.83% efficiency)
- Insurance-backed by Power Guard, Finance by SPIB
- Guaranteed positive tolerance from 0-3% ensures power output reliability
- Independently certified by international certification bodies*
- BBA approved product
- Manufactured according to International Quality and Environmental Management System (ISO9001, ISO18001 and ISO14001)
- Most competitive warranties on the marketplace: 10 years workmanship warranty, 95% efficiency over 12 years and 90% efficiency over 25 years
- Module can bear snow loads and wind loads of up to 5400pa
- High performance under low light conditions (cloudy days, mornings and evenings)

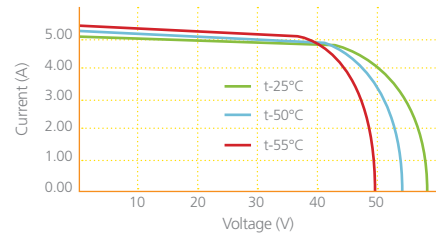
*TUV, MCS, BBA, UL, BAPT and PV Cycle

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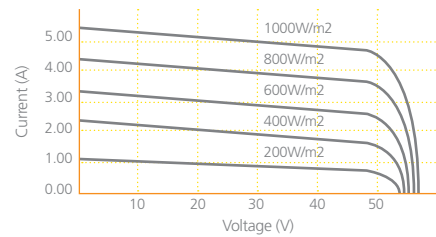
Dimensions of PV Module ZX250(48)MS



I-V Curves of PV Module ZX250(48)MS



Dependence of the temperature



Dependence of the irradiance

Electrical Characteristics

Maximum Power at STC (Pmax)	250 W
Power Tolerance	0/+3%
Maximum Power Voltage (Vmp)	48.00 V
Maximum Power Current (Imp)	5.21 A
Open Circuit Voltage (Voc)	59.04 V
Short Circuit Current (Isc)	5.63 A
Maximum System Voltage	600 V DC (UL) / 1000 V DC (TUV)
Maximum Series Fuse Rating	10 A
Module Efficiency nm (%)	14.83%

Values at Standard Test Conditions STC
(Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Mechanical Characteristics

Solar Cells	Mono-crystalline Gallium 125 x 125mm
Cells Orientation	96 (8x12)
Module Dimension	1575 x 1082 x 45mm
Weight	22kg
Glass	High transparency, low iron, tempered glass (3.2mm)
Frame	Anodised aluminium alloy
J-Box	IP 65 rated
Cables/Connector	Photovoltaic Technology cable 4mm diameter, 900mm length, MC4
Number of Diodes	4

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45°C±2
Temperature Coefficient of PMPP	-0.4183%/K
Temperature Coefficient of VOC	-0.2904%/K
Temperature Coefficient of ISC	0.0241%/K
Operational Temperature	-40~+85°C

Insurance



Warranty

- 10 year workmanship warranty
- 12 year warranty, 95% output
- 25 year warranty, 90% output

Certifications



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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