

OPXXX-M/72 Series Monocrystalline Solar Module

OMNIS photovoltaic Modules are constructed with high efficient solar cells and produce higher output per module than others in its class. This industrial grade module is an industry standard among various industry professionals.



OPXXX-M-B
Black Frame

OPXXX-M-BB
Black Frame & Black Backsheet

GLASS

- High light transmission giving more electricity
- Excellent mechanical loading performance (5400 Pascal)
- SPF-UL certified

EVA

- High light transmission assuring better power performance
- High GEL and peeling strength guarantying strong encapsulation
- Good ultraviolet aging resistance
- TUV/UL certified

CELL

- Excellent efficiency and long term reliability
- Good performance under high temperature and low irradiance conditions
- 100% In-Line Electroluminescence(EL)
- Positive tolerance for each panel
- TUV/UL

BACKSHEET

- TEDLAR based encapsulation and protection
- Good aging resistance guarantying strong durability performance
- Excellent adhesion and ultraviolet stability
- TUV/UL certified

FRAME

- Anodized/Electrophoretic aluminum means durable protection from environment
- Unique designed profile ensuring strong mechanical loading performance
- Silver/Black color available

JUNCTION BOX

- Reliable by-pass diodes assuring good product protection
- Looking connector working compatible worldwide
- Excellent heat emission performance
- IP65 or IP67 protection
- TUV/UL certified

Electrical Characteristics

Module Type	OP200-5M	OP205-5M	OP210-5M
Rated Power at STC (Pmp)	W 200	205	210
Power Tolerance	Wp	0 - +5	
Module Efficiency (ηm)	% 17.9	18.4	18.9
Open Circuit Voltage (Voc)	V 45.6	45.8	45.9
Short Circuit Current (Isc)	A 5.76	5.89	5.99
Maximum Power Voltage (Vmp)	V 35.9	36.2	36.4
Maximum Power Current (Imp)	A 5.57	5.67	5.77
Maximum System Voltage	V	1000	
Maximum Series Fuse Rating	A	10	

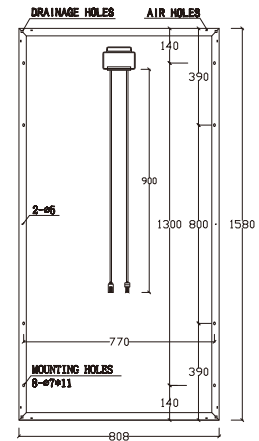
Temperature Characteristics

Pmax Temperature Coefficient	%/C	-0.45
Voc Temperature Coefficient	%/C	-0.32
Isc Temperature Coefficient	%/C	+0.04
Operating Temperature	C	-45~+80
Nominal Operating Cell Temperature (NOCT)	C	45±2

Mechanical Specifications

Module Dimensions	1580 × 808 × 35 mm
Weight	15.8KG
Solar Cells	Mono125 × 125 mm (72pcs)
Front glass	3.2mm Tempered Glass
Frame	Silver/Black Anodized aluminium alloy
Junction Box	IP65/IP67
Output Cables	4mm ² , 1000mm
Connector	MC4 or MC4 Compatible
Maximum Snow Load	550kg/m ²
Maximum Wind Load	200km/h
Hailstone Impact Test	80km/h for 25mm ice ball

Engineering (Back Side)



Current-Voltage & Power-Voltage Curve

