



ORI-50M

Small Size 50 Watt Monocrystalline Solar Module



Features
High power output module conversion efficiency with stable cell production technology.

Anti-reflective and anti-soiling surface reduces power loss from dirt and dust.

Outstanding performance in low-light irradiance environments.

Certified to withstand: wind load and snow load.

High salt mist and ammonia resistance certified by TUV Rheinland.

Quality and Safety
Designed according to and complying with all requirements in IEC 61730 , IEC 61215, UL1703, CEC Listed, MCS and CE.

ISO 9001:2008:Quality management systems.
ISO 14001:2004:Environmental management systems.
BS OHSAS 18001:2007:Occupational health and safety management systems.



Applications

- On-grid residential roof-tops
- On-grid commercial/industrial roof-tops
- Solar power stations
- Other on-grid applications

ORI-50M

Electrical Characteristics

Model	ORI-50M
Optimum Operating Voltage (Vmp)	18.57V
Optimum Operating Current (Imp)	2.69A
Open-Circuit Voltage (Voc)	22.64V
Short-Circuit Current (Isc)	2.88A
Cell Efficiency (%)	17.96%
Module Efficiency (%)	13.73%
Tolerance Wattage (e.g. +/-3%)	0 ~ +3%
Maximum Power(W)	50 Watt
NOCT	47°C +/- 2°C

General Characteristics

Solar Cell	156*51 (52.5) MONO
Number of Cells	4*9
Dimension	545mm*668mm*28mm
Weight	4.3KG
Front Glass	3.2mm tempered glass
Frame	28#
Allowable Hail Load	23m/s, 7.53 g
Classification	TPT backing, FF 70-76%,-40°C to +85°C

Temperature Coefficients

Temperature Coefficient of Im (%/°C)	+0.04
Temperature Coefficient of Pmax (%/°C)	-0.47
Temperature Coefficient of Voc (%/°C)	-0.38
Temperature Coefficient of Isc (%/°C)	+0.04
Temperature Coefficient of Vm (%/°C)	-0.38

Packing Solution

Packing	Wooden Box
Pieces per container	60pcs/Pallets

Engineering Drawing

