

#### Applications

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

### **ORI-90-100M**

# Small Size 90-100 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.



#### Electrical Characteristics

Model	ORI-90M	ORI-95M	ORI-100M	
Optimum Operating Voltage (Vmp)	17.69V	17.95V	18.78V	
Optimum Operating Current (Imp)	5.09A	5.29A	5.32A	
Open-Circuit Voltage (Voc)	22.54V	22.57V	22.64V	
Short-Circuit Current (Isc)	5.44A	5.66A	5.70A	
Cell Efficiency (%)	16.09%	16.98%	17.88%	
Module Efficiency (%)	13.41%	14.15%	14.90%	
Tolerance Wattage (e.g. +/-3%)		0 ~ +3%		
Maximum Power(W)	90 Watt	95Watt	100Watt	
NOCT		47℃ +/- 2℃		

#### A General Characteristics

Solar Cell	156*104 MONO
Number of Cells	4*9
Dimension	1005mm*668mm*35mm
Weight	8.0KG
Front Glass	3.2mm tempered glass
Frame	35#
Allowable Hail Load	23m/s, 7.53 g
Classification	TPT backing, FF 70-76%,-40 °C to +85 °C

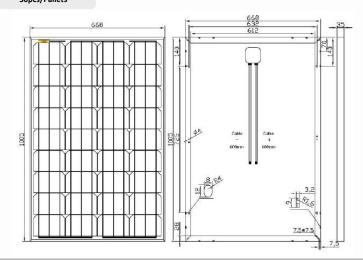
#### Packing Solution



#### Temperature Coefficients

Temperature Coefficient of Im (%/ $^{\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	+0.04
Temperature Coefficient of Pmax (%/ $^{\circ}\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	-0.47
Temperature Coefficient of Voc (%/ $^{\prime}\!C$ )	-0.38
Temperature Coefficient of Isc (%/ $^{\prime}\!C$ )	+0.04
Temperature Coefficient of Vm (%/ $^{\prime\!\prime}C$ )	-0.38

#### Engineering Drawing



## **ORI-90-100M**