



## 85-90Watt Polycrystalline 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.

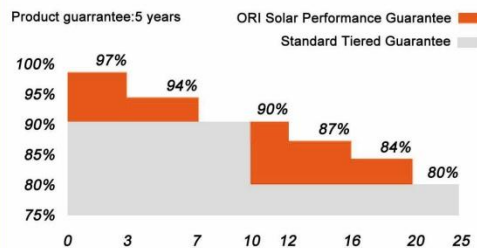
**Quality and Safety**  
Designed according to and complying with all requirements in IEC 61730, IEC 61215, UL1703, CEC Listed, MCS and CE.

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



25-YEAR WARRANTY

### Warranties



### Electrical Characteristics

Model	ORI-85D-12/BEA	ORI-90D-12/BEA
Optimum Operating Voltage (Vmp)	17.6V	17.8V
Optimum Operating Current (Imp)	4.83A	5.06A
Open-Circuit Voltage (Voc)	22.0V	22.2V
Short-Circuit Current (Isc)	5.13A	5.37A
Maximum Power at STC (Pmax)	85Wp	90Wp
Nominal Voltage	12V	
Operating Temperature	-40°C to +85°C	
Maximum System Voltage	1000V(IEC)/600V(UL)	
Maximum Series Fuse Rating	15A	
Power Tolerance	±5%	

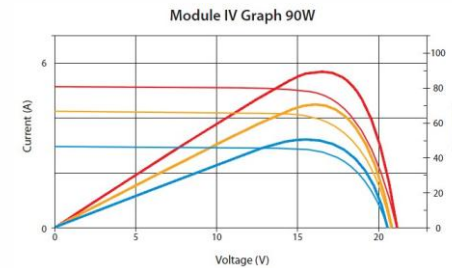
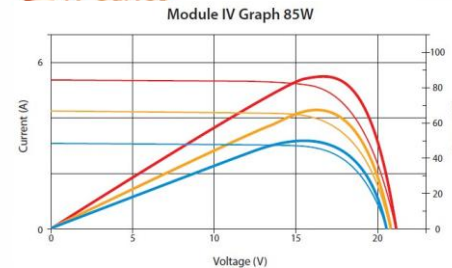
### General Characteristics

Solar Cell	Polycrystalline
Number of Cells	36 (4x9)
Dimension	1007×665×30mm (39.6×26.2×1.2 inches)
Weight	8 Kgs (17.6 lbs)
Front Glass	3.2mm tempered glass
Frame	Anodized aluminum alloy
Mechanical load	5400 pa
Classification	Application class A; IP65; H4 connector Output Cables Symmetrical length (±)750mm/29.5 inches

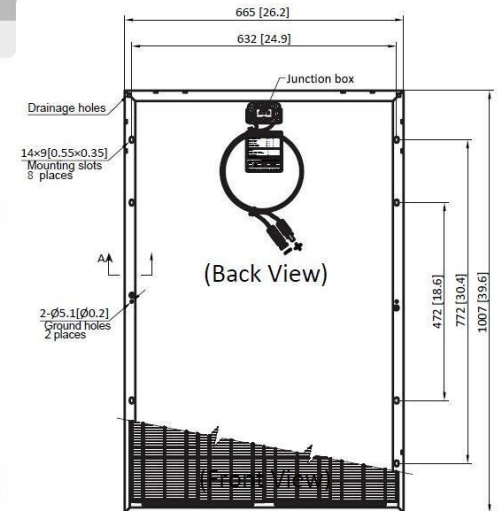
### Temperature Coefficients

NOCT (°C)	45±2
Temperature Coefficient of Pmax (%/°C)	-0.47
Temperature Coefficient of Voc (%/°C)	-0.34
Temperature Coefficient of Isc (%/°C)	0.045

### IV Curves



— STC IV data — 800 W/m² IV data — 600 W/m² IV data  
— STC PV data — 800 W/m² PV data — 600 W/m² PV data



### Section A-A

