



## 50-55Watt 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.

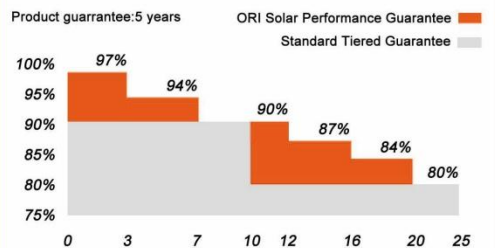
**Quality and Safety**  
Designed according to and complying with all requirements in IEC 61730, IEC 61215, UL1703, CEC Listed, MCS and CE.

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-50D-12/MEA	ORI-55D-12/MEA
Optimum Operating Voltage (Vmp)	17.4V	17.45V
Optimum Operating Current (Imp)	2.93A	3.14A
Open-Circuit Voltage (Voc)	21.8V	22.2V
Short-Circuit Current (Isc)	3.13A	3.34A
Maximum Power at STC (Pmax)	50Wp	55Wp
Nominal Voltage	12V	
Operating Temperature	-40°C to +85°C	
Maximum System Voltage	1000V(IEC)/600V(UL)	
Maximum Series Fuse Rating	10A	
Power Tolerance	±5%	

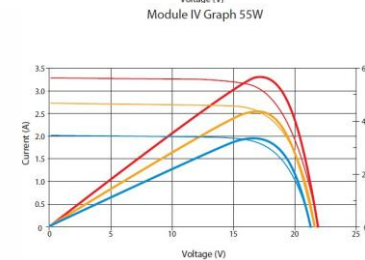
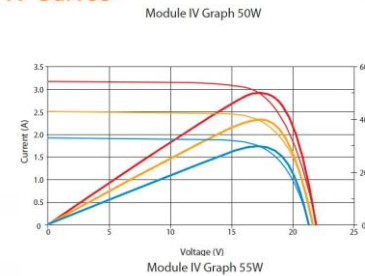
### General Characteristics

Solar Cell	Polycrystalline
Number of Cells	36 (4x9)
Dimension	631x665x30mm (24.8x26.2x1.2 inches)
Weight	5.3 Kgs (11.7 lbs)
Front Glass	3.2mm tempered glass
Frame	Anodized aluminum alloy
Mechanical load	5400 pa
Classification	Application class A; IP65; 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/m<sup>2</sup> IV data — 600 W/m<sup>2</sup> IV data  
 — STC PV data — 800 W/m<sup>2</sup> PV data — 600 W/m<sup>2</sup> PV data

