



40-45Watt 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.

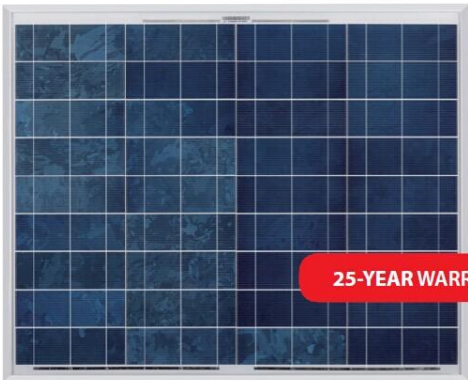
Outstanding performance in low-light irradiance environments.

Certified to withstand: wind load and snow load.

High salt mist and ammonia resistance certified by TUV Rheinland.

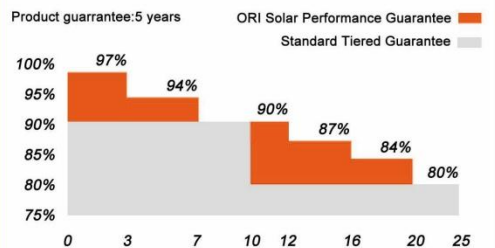
Quality and Safety
Designed according to and complying with all requirements in IEC 61730, IEC 61215, UL1703, CEC Listed, MCS and CE.

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-40D-12/REA	ORI-45D-12/REA
Optimum Operating Voltage (Vmp)	17.4V	17.6V
Optimum Operating Current (Imp)	2.30A	2.56A
Open-Circuit Voltage (Voc)	21.8V	22.0V
Short-Circuit Current (Isc)	2.58A	2.79A
Maximum Power at STC (Pmax)	40Wp	45Wp
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%	

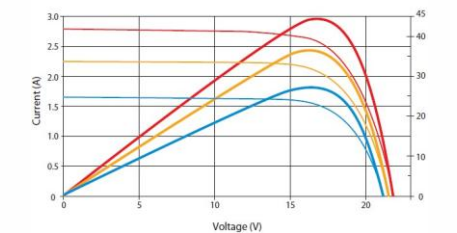
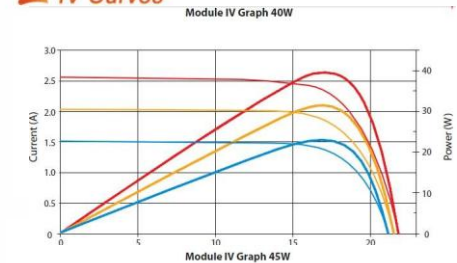
General Characteristics

Solar Cell	Polycrystalline
Number of Cells	36 (4x9)
Dimension	537×665×30mm (21.1×26.2×1.2 inches)
Weight	4.5 Kgs (9.9 lbs)
Front Glass	3.2mm tempered glass
Frame	Anodized aluminum alloy
Mechanical load	5400 pa
Classification	Application class A; IP65

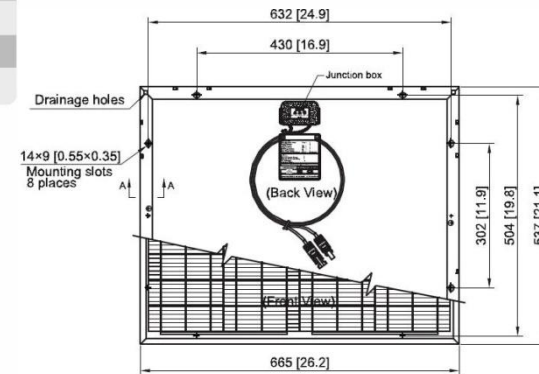
Temperature Coefficients

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

