



## 20Watt Polycrystalline Solar Module



**25-YEAR WARRANTY**

**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-20D-12/CEA
Optimum Operating Voltage (Vmp)	17.6V
Optimum Operating Current (Imp)	1.14A
Open-Circuit Voltage (Voc)	21.7V
Short-Circuit Current (Isc)	1.26A
Maximum Power at STC (Pmax)	20Wp
Nominal Voltage	12V
Operating Temperature	-40°C to +85°C
Maximum System Voltage	50V(IEC)/30V(UL)
Maximum Series Fuse Rating	5A
Power Tolerance	±10%

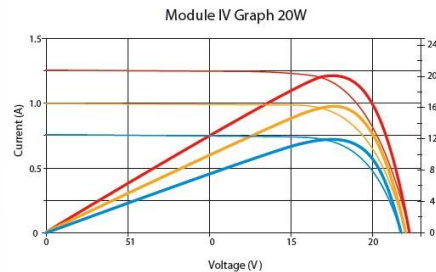
### General Characteristics

Solar Cell	Polycrystalline
Number of Cells	36 (6×6,2×18)
Dimension	496×368×18mm (19.5×14.5×0.7inches)
Weight	2.3 Kgs (5.1 lbs)
Front Glass	3.2mm tempered glass
Frame	Anodized aluminum alloy
Mechanical load	5400 pa
Classification	Application class A; IP65

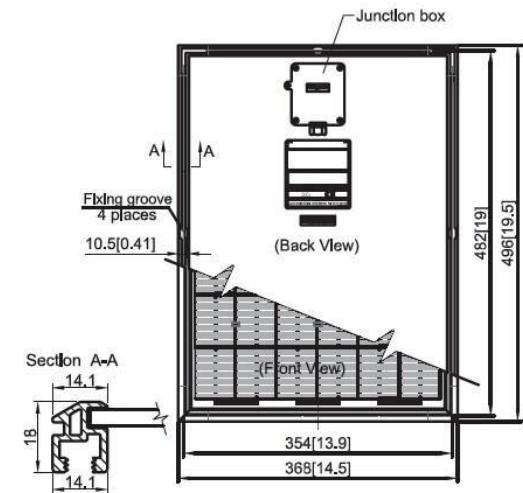
### Temperature Coefficients

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



### Warranties

