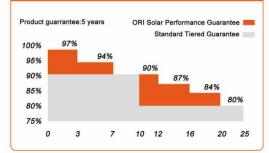
# ORI-20D-12/CEA







Warranties

# 20Watt 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.



#### 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℃ to +85℃
Maximum System Voltage	50V(IEC)/30V(UL)
Maximum Series Fuse Rating	5A
Power Tolerance	±10%

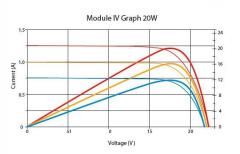
#### General Characteristics

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

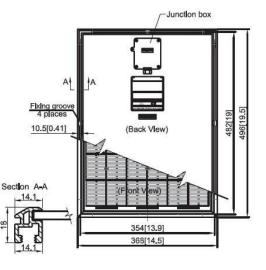
## Temperature Coefficients

NOCT (C)	45±2	
Temperature Coefficient of Pmax (%/ $\ensuremath{\mathbb{C}}$ )	-0.47	
Temperature Coefficient of Voc (%/ $^{\circ}\!\!\!\!{}^{\circ}$ )	-0.34	
Temperature Coefficient of Isc (%/ ${}^{\!$	0.045	

## A IV Curves







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