



ORI-310P

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## 290-310Watt 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-290P	ORI-295P	ORI-300P	ORI-305P	ORI-310P
Optimum Operating Voltage (Vmp)	35.8V	36.2V	36.6V	36.8V	37.0V
Optimum Operating Current (Imp)	8.11A	8.15A	8.20A	8.30A	8.38A
Open-Circuit Voltage (Voc)	44.9V	45.1V	45.3V	45.6V	45.9V
Short-Circuit Current (Isc)	8.69A	8.76A	8.84A	8.91A	8.96A
Maximum Power at STC (Pmax)	290Wp	295Wp	300Wp	305Wp	310Wp
Module Efficiency	14.95%	15.20%	15.46%	15.72%	15.98%
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1000V DC (IEC)				
Maximum Series Fuse Rating	15A				
Power Tolerance	0~+3%				

### General Characteristics

Solar Cell	Polycrystalline 156x156mm (6 inches)
Number of Cells	72(6x12) in series connection
Dimension	1956x992x40mm (77.01x39.05x1.57 inches)
Weight	26.5kgs(58.4 lbs)
Front Glass	4.0mm, High transmission, Low Iron, Tempered
Frame	Anodized aluminum alloy
Mechanical load	5400 pa
Classification	safety class II; Application class A; IP67 rated

### Temperature Coefficients

NOCT (°C)	45±2
Temperature Coefficient of Pmax (%/°C)	-0.41
Temperature Coefficient of Voc (%/°C)	-0.31
Temperature Coefficient of Isc (%/°C)	0.06

### Packing Solution

Container	40' GP
Pieces per pallet	50
Pallets per container	11
Pieces per container	550

### IV Curves

