

POLY 290-320 Watt



Recommended For



Commercial roof



Mounted ground



Highest Cell Conversion Efficiency 18.40%

Through superior cell technology and leading manufacturing capability



Easy Installation and Handling

With perfect compatibility to industry standard inverters and mounting systems



Excellent Weak Light Performance

Excellent performance under low light environments



Withstand High Wind and Snow Loads

Entire module withstand strong wind-pressure(2400Pa) and snow load(5400Pa)



Authoritative PV Standards

Conform with PV standards: IEC61215, IEC61730, MCS and UL1703



QC System: ISO9001

Processes comply with ISO9001 ensures Zero Defect

Warranties

10 years

Manufacturing warranty

12 years

90% output power warranty

25 years

80% output power warranty



Qualifications & Certificates

CE, UL 1703, IEC 61215, IEC 61730, MCS, CEC Australia,
PV CYCLE, ISO 9001, ISO 14001, RoHS



Electrical Data at STC	TPS-P290	TPS-P300	TPS-P310	TPS-P320
Maximum Power (Pmax)	290W	300W	310W	320W
Power Tolerance	0 to 3%			
Efficiency of Cell	16.60%	17.20%	17.80%	18.40%
Optimum Operation Current (Imp)	8.11A	8.20A	8.38A	8.56A
Optimum Operation of Voltage (Vmp)	35.8V	36.6V	37.0V	37.3V
Short Circuit Current (Isc)	8.69A	8.84A	8.96A	9.12A
Open Circuit Voltage (Voc)	44.9V	45.3V	45.9V	46.4V

Values at Standard Test Conditions STC (Air mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Thermal Characteristic	
Nominal operating cell temperature (NOCT)	45±2°C
Temperature coefficient of Pmax	-0.41%/°C
Temperature coefficient of Voc	-0.31%/°C
Temperature coefficient of Isc	0.06%/°C

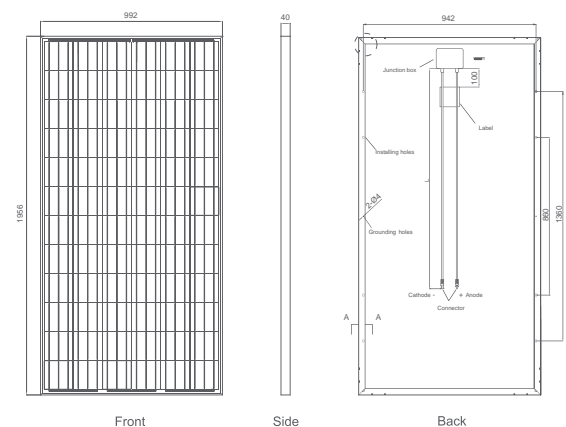
Operating Conditions	
Max. system voltage	1000VDC (IEC), 600VDC (UL)
Max. series fuse rating	15A
Operating temperature range	-40 to 85°C
Max. static load, front (e.g., snow and wind)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Max. hailstone impact (diameter/velocity)	25mm/23m/s

Construction Materials	
Front cover (material/type/thickness)	low-iron tempered glass/3.2mm
Cell (quantity/material/type/dimensions)	72/polyocrystalline/156mm×156mm
Encapsulant (material)	ethylene vinyl acetate (EVA)
Frame (material/color/anodization color)	anodization aluminum alloy/silver/clear
Junction box (protection degree)	TUV certified/IP65
Cable (length/cross-sectional area)	900m/4.0mm ²
Plug connector (type/protection degree)	MC4/IP67
Number of bypass diodes	6 pieces

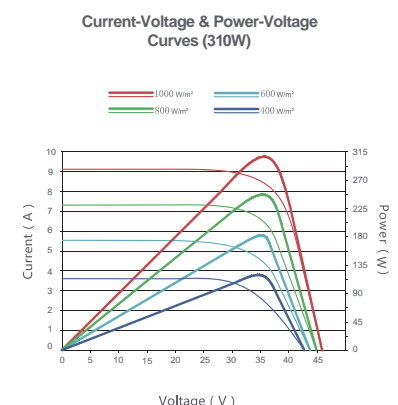
General Characteristics	
Dimensions (L/W/H)	1956mm×992mm×40mm
Weight	26±0.5kgs

Packaging Specifications			
Container	20'GP	40'GP	40'HQ
Number (modules×pallets)	22×10	22×22	28×22

Dimensions of Module



I-V Curves of Module



Distributor informations: