

Recommended For



Residential roof



Commercial roof



Mounted ground



Highest module Conversion Efficiency 19.30%

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,
ISO 9001, ISO 14001, RoHS



MONO 280-315 Watt ^{PLUS}

Electrical Data at STC	TPS-M280	TPS-M285	TPS-M290	TPS-M295	TPSM300	TPS-M305	TPS-M310	TPS-M315
Maximum Power (Pmax)	280W	285W	290W	295W	300W	305W	310W	315W
Power Tolerance	0 to 5W							
Efficiency of Module	17.10%	17.40%	17.70%	18.00%	18.30%	18.70%	19.00%	19.30%
Optimum Operation Current (Imp)	8.84A	8.97A	9.01A	9.08A	9.19A	9.28A	9.37A	9.46A
Optimum Operation of Voltage (Vmp)	31.7V	31.8V	32.2V	32.5V	32.6V	32.9V	33.1V	33.3V
Short Circuit Current (Isc)	9.42A	9.51A	9.66A	9.68A	9.77A	9.85A	9.94A	10.00A
Open Circuit Voltage (Voc)	38.4V	38.5V	38.9V	39.6V	39.8V	40.0V	40.2V	40.5V

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	-0.40%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

Operating Conditions

Max. system voltage	1000VDC (IEC), 1000VDC (UL)
Max. series fuse rating	15A (≅ 285W), 20A (≅ 290W)
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)	60/monocrystalline/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	3 or 6 pieces as options

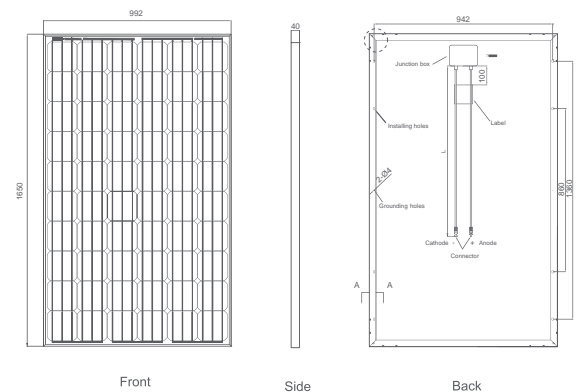
General Characteristics

Dimensions (L/W/H)	1650mm×992mm×40mm
Weight	19±0.5kgs

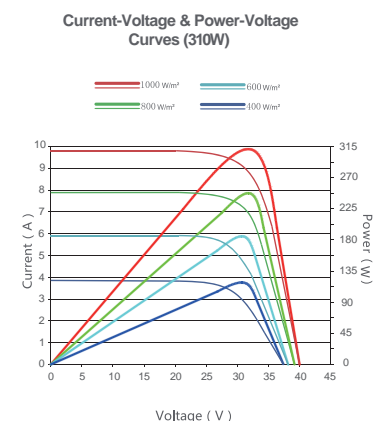
Packaging Specifications

Container	20'GP	40'GP	40'HQ
Number (modules×pallets)	22×12	22×28	28×28

Dimensions of Module



I-V Curves of Module



Distributor informations: