Sunport

Flex Series

S6 · 305-325W High Efficiency Flexible PV Module
Mono 60 Cells

19.8%

Module efficiency up to 19.8%

Flexible PV Module

Light, Thin Design
1.4mm thickness, 4kg weight, leading level in PV industry

BIPV Application
Further integrate with buildings in terms of shape and installation for BIPV application

High Reliability
Conductive back sheet 2D encapsulation without soldering, resulted lower degradation under multiple extreme testing condition

Ultra Flexible
Ultra-thin silicon wafers with advanced organic polymer encapsulation materials, minimum bending radius reach 0.25m

High Efficiency
MWT back contact cell and modules with busbar-free design and higher efficiency

Lead Free
Eco-friendly PV design achieves Lead-free MWT module without soldering materials

MWT Back Contact Solar Cell

- New cell structure and different manufacturing process.
- No busbar on the front 3% less shadow and better use of sunlight.
- Effectively avoid the micro crack caused by the pressure between cell edge and ribbon.
- Compatible with other cell types including TOPCON, PERC, HIT, etc.

Comprehensive Qualifications & Certifications

★ ISO 9001: 2015 Quality Management System
★ ISO 14001: 2015 Environment Management System
★ ISO 45001: 2018 Occupation Health Safety Management System

Insured by PICC

PICC

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Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP305M60S	SPP310M60S	SPP315M60S	SPP320M60S	SPP325M60S
Max-Power(Pm)	W	305	310	315	320	325
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	32.6	32.8	33.0	33.2	33.4
Max-Power Current(Im)	A	9.36	9.45	9.55	9.64	9.73
Open-Circuit Voltage(Voc)	V	39.7	39.9	40.1	40.3	40.5
Short-Circuit Current(Isc)	A	9.75	9.83	9.90	9.99	10.08
Module Efficiency(ηm)	%	18.6	18.9	19.2	19.5	19.8
STC: AM=1.5, Irradiation 1000W/m², Module Temperature 25°C						

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP305M60S	SPP310M60S	SPP315M60S	SPP320M60S	SPP325M60S
Max-Power(Pm)	W	228	232	236	240	244
Max-Power Voltage(Vm)	V	29.8	30.0	30.2	30.4	30.6
Max-Power Current(Im)	A	7.64	7.73	7.81	7.89	7.97
Open-Circuit Voltage(Voc)	V	36.4	36.5	36.6	36.7	36.8
Short-Circuit Current(Isc)	A	7.94	8.05	8.12	8.20	8.30
NMOT: Irradiation 800W/m², ambient temperature 20°C, Wind Speed 1m/s						

Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	0.06%/°C

Operating Conditions

Max. system voltage	DC1000V(IEC)
Max. series fuse rating	15A
Operating temperature range	-40°C～+85°C
Bending radius	⩾0.20m

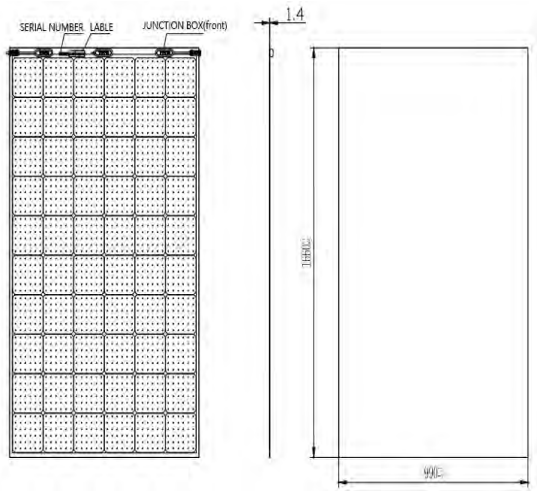
Mechanical Characteristics

Dimension(L×W×H)	1660mmx990mmx1.4mm
Weight	4.0 kg
Back material	Back Sheet(white, transparent, black)
Cell (quantity / material / type / dimensions)	60(10x6) / Monocrystalline / 158.75mm
Encapsulant	EVA
Frame	None
Junction box(protection degree)	IP68
Cable (length/cross-section area)	customizable / 4mm²
Connector	MC4 Compatible

Package

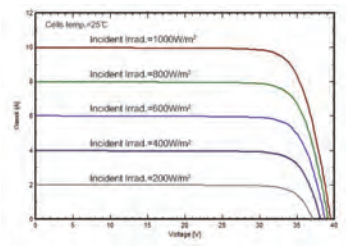
Container Size	Quantity(pcs)	Quantity(per pallet)
40' HC	1196	46

Module Size



I-V Curve

I-V Curves of SPP320M60S at different irradiance



I-V Curves of SPP320M60S at different cell temperature