SPP290-320M605

Mono 60 Cells





Flexible PV Module *



Flexible

Flexible polymer materials and MWT PCB packaging technology.



High efficiency

The highest efficiency of the series is up to 19.5%.



Ultra thin

The PV Module thickness is only 1.4mm.



Light weight

Weight is reduced by more than 70%.



Easy Installation

Installation cost is reduced by about 50%.



Attractive design

Specially designed grid feature, nice-looking.



Heat-Resistant

Temperature coefficiency is low to -0.36%/℃. More power output in hot environment.



Anti-PID

With specific treatment, PV module passed strict PID test, no PID risk.

MWT Back Contact Solar Cell

- New cell structure and different manufacturing process.
- ■No bus-bar 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 PERC, HIT, Black Silicon etc.

Insured by PICC



Comprehensive System & Product Certification

- ★ISO 9001: 2015 Quality Management System
- ★ISO 14001: 2015 Environment Management System
- ★OHSAS 18001: 2007 Occupation Health Safety Management System
- **★**TUV NORD Certification













Typical Electrical Characteristics at Standard Test Conditions(STC)

| Spec / Model | Unit | SPP290M60S | SPP295M60S | SPP300M60S | SPP305M60S | SPP310M60S | SPP315M60S | SPP320M60S |
|------------------------------|------------|---------------------|------------|------------|------------|------------|------------|------------|
| Max-Power(Pm) | \bigvee | 290 | 295 | 300 | 305 | 310 | 315 | 320 |
| Power Tolerance | % | | | | 0~+3% | | | |
| Max-Power Voltage(Vm) | \vee | 32 | 32.2 | 32.4 | 32.6 | 32.8 | 33 | 33.2 |
| Max-Power Current(Im) | Α | 9.06 | 9.16 | 9.26 | 9.36 | 9.45 | 9.55 | 9.64 |
| Open-Circuit Voltage(Voc) | \vee | 39.1 | 39.3 | 39.5 | 39.7 | 39.9 | 40.1 | 40.3 |
| Short-Circuit Current(Isc) | Α | 9.5 | 9.58 | 9.67 | 9.75 | 9.83 | 9.9 | 9.99 |
| Module Efficiency(ηm) | % | 17.6 | 18.0 | 18.3 | 18.6 | 18.9 | 19.2 | 19.5 |
| STC:AM=1.5, Irradiance 1000\ | N∕m², Modı | ule Temperature 25℃ | | | | | | |

Typical Eletrical Characteristics at Nominal Module Operating Temperature (NMOT)

| Spec / Model | Unit | SPP290M60S | SPP295M60S | SPP300M60S | SPP305M60S | SPP310M60S | SPP315M60S | SPP320M60S |
|---|-----------|------------|------------|------------|------------|------------|------------|------------|
| Max-Power(Pm) | \bigvee | 216 | 220 | 224 | 228 | 232 | 236 | 240 |
| Max-Power Voltage(Vm) | \vee | 29.2 | 29.4 | 29.6 | 29.8 | 30.0 | 30.2 | 30.4 |
| Max-Power Current(Im) | Α | 7.38 | 7.47 | 7.56 | 7.64 | 7.73 | 7.81 | 7.89 |
| Open-Circuit Voltage(Voc) | \vee | 36.1 | 36.2 | 36.3 | 36.4 | 36.5 | 36.6 | 36.7 |
| Short-Circuit Current(Isc) | Α | 7.65 | 7.74 | 7.86 | 7.94 | 8.05 | 8.12 | 8.20 |
| NMOT:Irradiance 800W/m2, Ambient Temperature 20℃, wind speed 1m/s | | | | | | | | |

Thermal Characteristics

| Nominal Module Operating Temperature | 43 ± 2°C |
|--------------------------------------|----------|
| Normal Wodale Operating Temperature | 70-20 |
| Temperature coefficient of Pmax | -0.36%/℃ |
| Temperature coefficient of Voc | -0.28%/℃ |
| Temperature coefficient of Isc | 0.06%/°C |

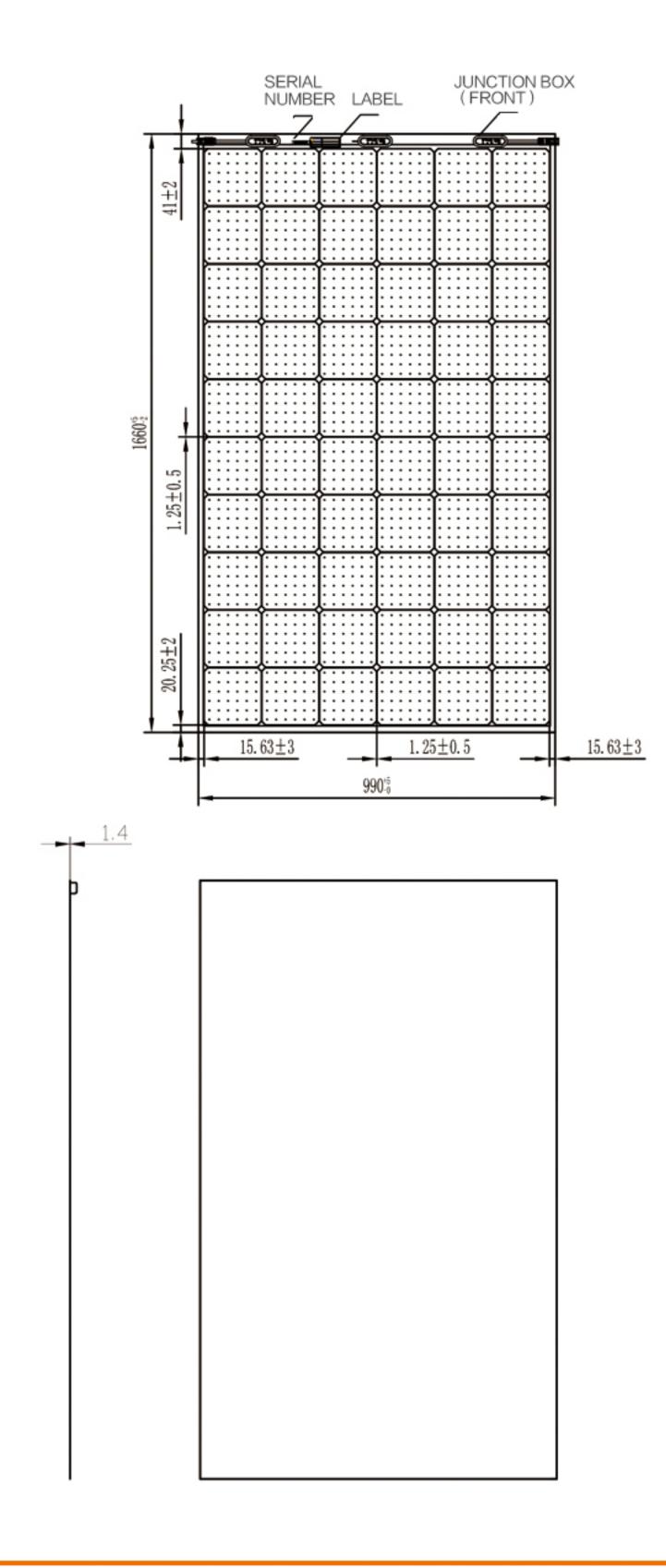
Operating Conditions

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

Mechanical Characteristics

| $Dimension(L \times W \times H)$ | 1660mmx990mmx1.4mm |
|--|---|
| Weight | 4.0 kg |
| Back material | Backplane(white, transparent, black) |
| Cell (quantity/material/type/dimensions) | 60(10x6)/ Monocrystalline-PERC/6 inches |
| Encapsulant (material) | EVA |
| Frame | None |
| Junction box(protection degree) | IP68 |
| Cable (length/cross-section area) | Customize by customer/4mm2 |
| Connector | MC4 Compatible |
| | |

Dimensions



I-V Curves



