



20.4%

Module efficiency up to 20.4%

MWT 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 and LLOYD'S

PICC **LLOYD'S**

Comprehensive Qualifications & Certifications

- ★ IEC 61215, IEC 61730, IEC 61701, IEC 62716, IEC 60068-2-68.
- ★ CQC&CGC Top Runner Advanced Technology Certification (4A class)
- ★ ISO 9001: 2015 Quality Management System
- ★ ISO 14001: 2015 Environment Management System
- ★ OHSAS 18001: 2007 Occupation Health Safety Management System
- ★ TUV NORD and UK NQA Quality System Certification



Benchmark II SPP305-335M60G

305-335W MWT Double Glass Module

Mono 60 Cells

Benchmark MWT PV Module



Higher Efficiency

The highest efficiency of the series is up to 20.4%.



Higher Yield

Higher power generation on the same installation.



Lower Degradation

At least 98% of the initial effective output at the 1st year and 80.2% at the 30th year.



Heat-Resistant

Remain peak performance in hot days thanks to the improved temperature coefficient as low as $-0.36\%/^{\circ}\text{C}$.



Corrosion-Resistant

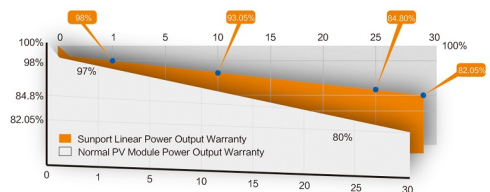
Certified for Ammonia Resistance and Salt Mist Corrosion to maximum severity level 6.



Anti-PID

Certified for Anti-PID under $85^{\circ}\text{C}/85\%\text{RH}$, for 288hrs.

30 Years Performance Warranty



Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP305M60G	SPP310M60G	SPP315M60G	SPP320M60G	SPP325M60G	SPP330M60G	SPP335M60G
Max-Power(Pm)	W	305	310	315	320	325	330	335
Power Tolerance	%	0~+3%						
Max-Power Voltage(Vm)	V	31.8	32.0	32.2	32.4	32.6	32.8	33.0
Max-Power Current(I _m)	A	9.60	9.69	9.79	9.88	9.97	10.07	10.16
Open-Circuit Voltage(Voc)	V	39.0	39.2	39.4	39.6	39.8	40.0	40.2
Short-Circuit Current(Isc)	A	10.12	10.20	10.28	10.36	10.44	10.52	10.62
Module Efficiency(η _m)	%	18.5	18.8	19.2	19.5	19.8	20.1	20.4
STC:AM=1.5, Irradiation 1000W/m ² , Module Temperature 25°C								

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP305M60G	SPP310M60G	SPP315M60G	SPP320M60G	SPP325M60G	SPP330M60G	SPP335M60G
Max-Power(Pm)	W	228	232	236	240	244	248	251
Max-Power Voltage(Vm)	V	29.1	29.3	29.5	29.7	29.9	30.1	30.3
Max-Power Current(I _m)	A	7.84	7.93	8.01	8.09	8.17	8.25	8.30
Open-Circuit Voltage(Voc)	V	35.8	35.9	36.0	36.1	36.2	36.3	36.5
Short-Circuit Current(Isc)	A	8.27	8.35	8.43	8.51	8.59	8.67	8.76
NMOT: Irradiation 800W/m ² , ambient temperature 20°C, Wind Speed 1m/s								

Temperature Coefficient

Nominal Module Operating Temperature	43 ± 2°C
Temperature coefficient of P _{max}	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	0.06%/°C

Package

Container Size	Quantity(pcs)	Quantity(pallet)
20' GP	396	12
40' GP	858	26
40' HC	858	26

Mechanical Property

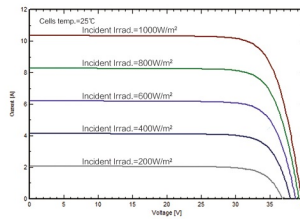
Dimension(L × W × H)	1658mm×992mm×6mm 1662mm×996mm×6mm (包含空端子/VA溢胶)
Weight	24kg
Glass Type	Right Side: High transparent antireflection coating semi-tempered glass, 2.5mm Back Side: Flat Blown semi-tempered Glass, 2.5mm
Solar Cell	60(10×6)/Mono/ 6inches
Encapsulant	Transparent EVA
Insulating Material	EPE, White
Frame	No Frame
Junction Box	IP67 & IP68
Cable	1000mm / 4mm ²
Connector	MC4 Compatible

Operating Conditions

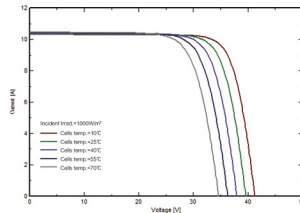
Max System Voltage	DC1500V(IEC)
Max Fuse Rated Current	15A
Operating Temperature Range	-40°C ~ +85°C
Mechanical Load	5400Pa/2400Pa
Max Allowable Hail Load	φ 25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

I-V Curve

I-V Curve at different irradiation (SPP320M60G)



I-V Curve at different temperature (SPP320M60G)



Module Size

