

MWT-330

Mono 60 Cells
Backcontact Technology



20.51%

Module efficiency up to 20.51%

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



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 MWT PV Module

- Higher Efficiency**
The highest efficiency of the series is up to 20.51%.
- Higher Yield**
Higher power generation on the same installation.
- Lower Degradation**
At least 98 % of the initial effective output at the 1st year and 82% 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	SPP310N60H	SPP315N60H	SPP320N60H	SPP325N60H	SPP330N60H	SPP335N60H	SPP340N60H	SPP345N60H	SPP350N60H	
Max-Power(P _m)	W	310	315	320	325	330	335	340	345	350	
Power Tolerance	%	0~+3%									
Max-Power Voltage(V _m)	V	31.7	31.9	32.1	32.3	32.5	32.7	32.9	33.1	33.3	
Max-Power Current(I _m)	A	9.78	9.87	9.97	10.06	10.15	10.24	10.33	10.42	10.51	
Open-Circuit Voltage(V _{oc})	V	39.2	39.4	39.6	39.8	40.0	40.2	40.4	40.6	40.7	
Short-Circuit Current(I _{sc})	A	10.31	10.38	10.46	10.53	10.58	10.64	10.66	10.67	10.69	
Module Efficiency(η _m)	%	18.16	18.45	18.75	19.04	19.33	19.63	19.92	20.21	20.51	

STC:AM=1.5, Irradiation 1000W/m², Module Temperature 25°C

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP310N60H	SPP315N60H	SPP320N60H	SPP325N60H	SPP330N60H	SPP335N60H	SPP340N60H	SPP345N60H	SPP350N60H
Max-Power(P _m)	W	232	236	240	244	248	252	256	260	264
Max-Power Voltage(V _m)	V	29.0	29.2	29.4	29.6	29.8	30.0	30.2	30.4	30.6
Max-Power Current(I _m)	A	8.00	8.08	8.16	8.24	8.32	8.40	8.48	8.55	8.63
Open-Circuit Voltage(V _{oc})	V	35.8	36.0	36.2	36.4	36.6	36.8	37.0	37.2	37.4
Short-Circuit Current(I _{sc})	A	8.44	8.52	8.58	8.64	8.69	8.74	8.79	8.84	8.86

NMOT: Irradiation 800W/m², 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 V _{oc}	-0.28%/°C
Temperature coefficient of I _{sc}	0.06%/°C

Package

Container Size	Quantity(pcs)	Quantity(pallet)
20' GP	180	6
40' GP	390	13
40' HC	780	26

Mechanical Property

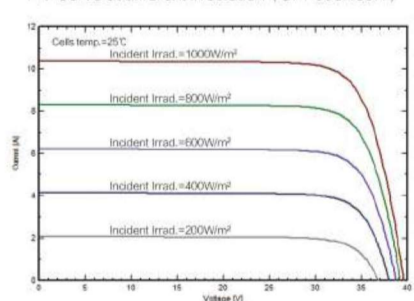
Dimension(L × W × H)	1680mm × 1016mm × 35mm
Weight	19.5kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass / 3.2mm
Solar Cell	60(10x6)/Mono/ 6inches
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP67
Cable	1000mm / 4mm ²
Connector	MC4 Compatible

Operating Conditions

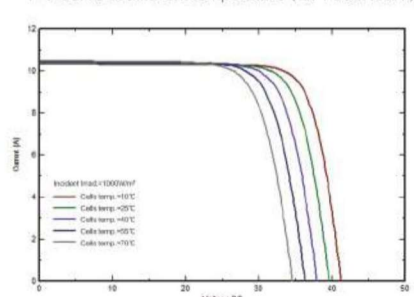
Max System Voltage	DC1500V(TUV)
Max Fuse Rated Current	15A
Operating Temperature Range	-40°C ~ +85°C
Mechanical Load	5400Pa/2400Pa
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

I-V Curve

I-V Curve at different irradiation (SPP335N60H)



I-V Curve at different temperature (SPP335N60H)



Module Size

