

Benchmark II SPP320-350N60H

320-350W MWT Module

Mono 60 Cells

20.51%

Module efficiency up to 20.51%

Benchmark MWT PV Module

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|---|--|
| <p> Higher Efficiency
The highest efficiency of the series is up to 20.51%.</p> <p> Higher Yield
Higher power generation on the same installation.</p> <p> Anti-PID
Certified for Anti-PID under 85°C/85%RH, for 288hrs.</p> | <p> Lower Degradation
At least 98% of the initial effective output at the 1st year and 82% at the 30th year.</p> <p> Corrosion-Resistant
Certified for Ammonia Resistance and Salt Mist Corrosion.</p> <p> Heat-Resistant
Remain peak performance in hot days (-0.36%/°C).</p> |
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Reinsurance Coverage for 30 Years

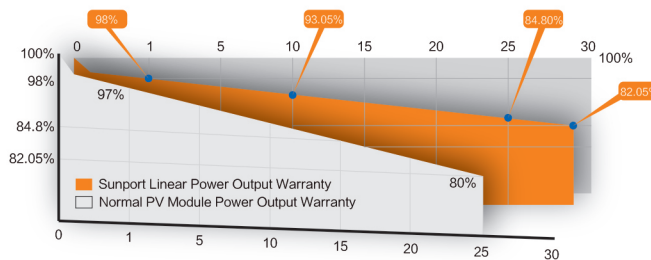
- The "conductive foil line" and metal foil greatly improved the performance and reliability.
- The PCB packaging technology avoids soldering lines of conventional module, reducing 2-4% of package loss.

12 Years

Quality
Warranty

30 Years

Performance
Warranty



Comprehensive Qualifications & Certifications

- ★ IEC 61215, IEC 61730, IEC 61701, IEC 62716, IEC 60068-2-68.
- ★ ISO 9001: 2015 Quality Management System
- ★ OHSAS 18001: 2007 Occupation Health Safety Management System

- ★ CQC&CGC Top Runner Advanced Technology Certification (4A class)
- ★ ISO 14001: 2015 Environment Management System
- ★ TUV NORD and UK NQA Quality System Certification



Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP320N60H	SPP325N60H	SPP330N60H	SPP335N60H	SPP340N60H	SPP345N60H	SPP350N60H
Max-Power(Pm)	W	320	325	330	335	340	345	350
Power Tolerance	%	0~+3%						
Max-Power Voltage(Vm)	V	32.1	32.3	32.5	32.7	32.9	33.1	33.3
Max-Power Current(I _m)	A	9.97	10.06	10.15	10.24	10.33	10.42	10.51
Open-Circuit Voltage(Voc)	V	39.6	39.8	40.0	40.2	40.4	40.6	40.7
Short-Circuit Current(I _{sc})	A	10.46	10.53	10.58	10.64	10.70	10.76	10.81
Module Efficiency(η _m)	%	18.75	19.04	19.33	19.63	19.92	20.21	20.51
STC:AM=1.5, Irradiation 1000W/m ² , Module Temperature 25℃								

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP320N60H	SPP325N60H	SPP330N60H	SPP335N60H	SPP340N60H	SPP345N60H	SPP350N60H
Max-Power(Pm)	W	240	244	248	252	256	260	264
Max-Power Voltage(Vm)	V	29.4	29.6	29.8	30.0	30.2	30.4	30.6
Max-Power Current(I _m)	A	8.16	8.24	8.32	8.40	8.48	8.55	8.63
Open-Circuit Voltage(Voc)	V	36.2	36.4	36.6	36.8	37.0	37.2	37.4
Short-Circuit Current(I _{sc})	A	8.58	8.64	8.69	8.74	8.79	8.84	8.86
NMOT: Irradiation 800W/m ² , ambient temperature 20℃,Wind Speed 1m/s								

Temperature Coefficient

Nominal Module Operating Temperature	43±2℃
Temperature coefficient of Pmax	-0.36%/℃
Temperature coefficient of Voc	-0.28%/℃
Temperature coefficient of I _{sc}	0.06%/℃

Package

Container Size	Quantity(pcs)	Quantity(pallet)
40' GP	390	13
40' HC	780/832	26

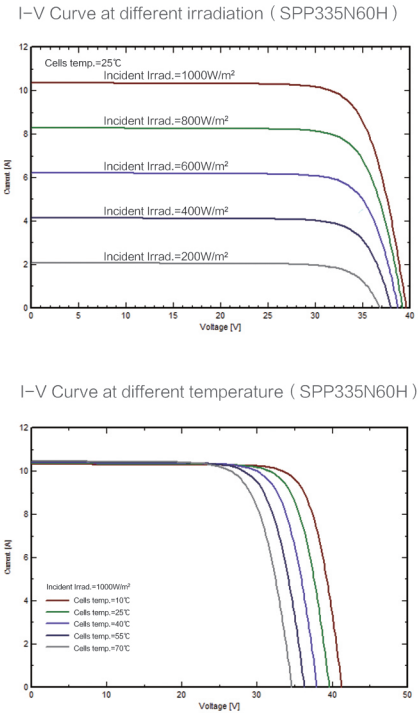
Mechanical Property

Dimension(L×W×H)	1680mmx1016mmx35mm
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	DC1000V/1500V(TUV)
Max Fuse Rated Current	15A
Operating Temperature Range	-40℃ ~ +85℃
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



Module Size

