

**Full-Black Series**

**D6 · 330-350W**  
**MWT Mono PERC All Black Module**

**20.5%**

Module efficiency up to 20.5%

### Full Black Series MWT PV Module

- Full Black**  
All black design for more elegant rooftop
- High Efficiency**  
MWT back contact cell and modules with busbar-free design and higher efficiency
- High Reliability**  
Conductive back sheet 2D encapsulation without soldering, resulted lower degradation under multiple extreme testing condition
- Superior Warranty**  
The only single-glass module with 30-year power warranty by LLOYD'S & PICC worldwide
- High ROI**  
Higher return on investment with higher power output
- Lead Free**  
Eco-friendly PV design achieves Lead-free without soldering materials

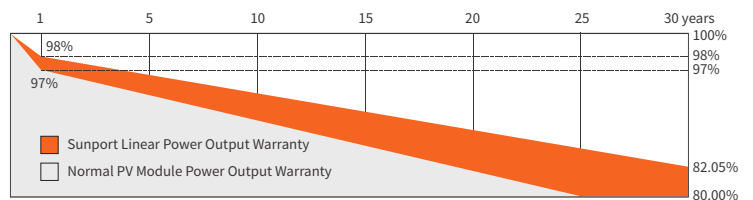
### Reinsurance Coverage for 30 Years

**12 year**  
Quality Warranty

**30 year**  
Performance Warranty

Insured by PICC and LLOYD'S

**PICC LLOYD'S**



※ 1st year degradation less than 2%, 30 years linear power output 82% guaranteed.

### Comprehensive Qualifications & Certifications

- ★ CQC&CGC Top Runner Advanced Technology Certification (4A class)
- ★ TUV NORD Certification
- ★ ISO 9001:2015 Quality Management System
- ★ ISO 14001:2015 Environment Management System
- ★ ISO 45001: 2018 Occupation Health Safety Management System



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## Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP330N60H	SPP335N60H	SPP340N60H	SPP345N60H	SPP350N60H
Max-Power(Pm)	W	330	335	340	345	350
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	32.5	32.7	32.9	33.1	33.3
Max-Power Current(I <sub>m</sub> )	A	10.15	10.24	10.33	10.42	10.51
Open-Circuit Voltage(V <sub>oc</sub> )	V	40.0	40.2	40.4	40.6	40.7
Short-Circuit Current(I <sub>sc</sub> )	A	10.58	10.64	10.70	10.76	10.81
Module Efficiency(η <sub>m</sub> )	%	19.3	19.6	19.9	20.2	20.5

STC: AM=1.5, Irradiation 1000W/m<sup>2</sup>, Module Temperature 25°C

## Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP330N60H	SPP335N60H	SPP340N60H	SPP345N60H	SPP350N60H
Max-Power(Pm)	W	248	252	256	260	264
Max-Power Voltage(Vm)	V	29.8	30.0	30.2	30.4	30.6
Max-Power Current(I <sub>m</sub> )	A	8.32	8.40	8.48	8.55	8.63
Open-Circuit Voltage(V <sub>oc</sub> )	V	36.6	36.8	37.0	37.2	37.4
Short-Circuit Current(I <sub>sc</sub> )	A	8.69	8.74	8.79	8.84	8.86

NMOT: Irradiation 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1m/s

## Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of P <sub>max</sub>	-0.36%/°C
Temperature coefficient of V <sub>oc</sub>	-0.28%/°C
Temperature coefficient of I <sub>sc</sub>	0.06%/°C

## Package

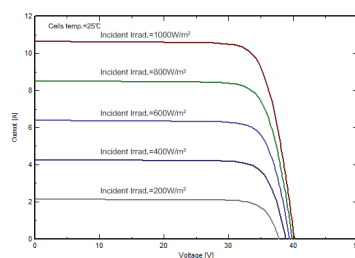
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HC	1008/1064	36

## Mechanical Characteristics

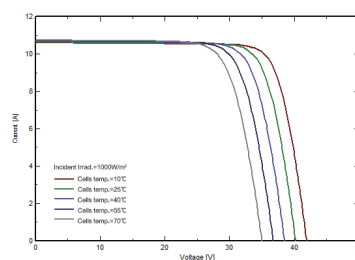
Dimension(L×W×H)	1680mmx1016mmx30mm
Weight	19.5kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass / 3.2mm
Solar Cell	60(10x6) / Mono / 162.75mm
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Black
Junction Box	IP67 / IP68
Cable	1000mm / 4mm <sup>2</sup>
Connector	MC4 Compatible

## I-V Curve

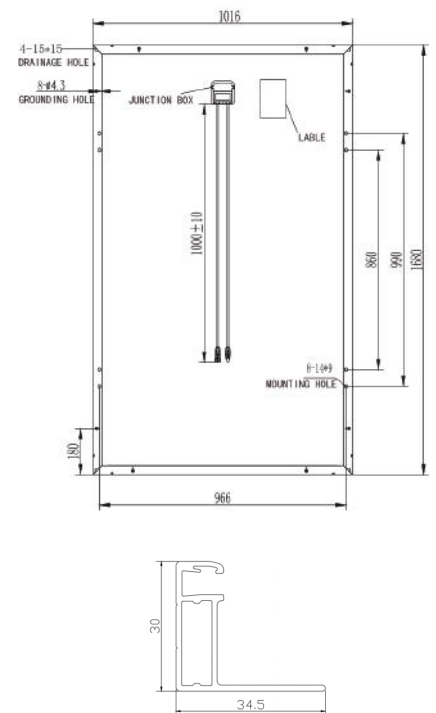
I-V Curve at different irradiation (SPP340N60H)



I-V Curve at different temperature (SPP340N60H)



## Module Size



## Operating Conditions

Max System Voltage	1500V(TUV)
Max Fuse Rated Current	15A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) /2400Pa (rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A