

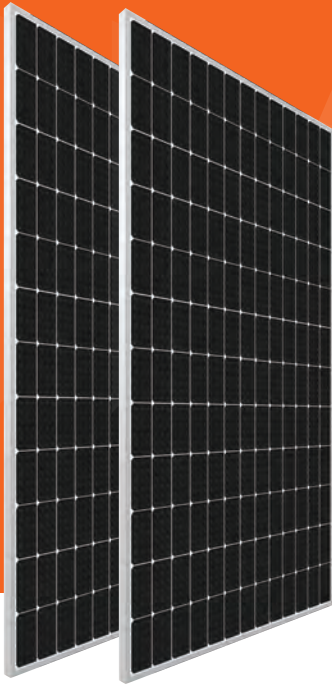


Classic Series

C7 II • 445-465W MWT Module Mono Half-cut 78 Cells

21%

Module efficiency up to 21%



Benchmark MWT PV Module



Innovative Layout

Innovative back contact module layout with asymmetric design for higher efficiency power



High Reliability

Conductive back sheet 2D encapsulation without soldering, resulted lower degradation under multiple extreme testing condition



High ROI

Higher return of investment with higher power output



High Efficiency

MWT back contact cell and modules with busbar-free design and higher efficiency



Superior Warranty

The only single-glass module with 30-year power warranty by LLOYD'S& PICC worldwide



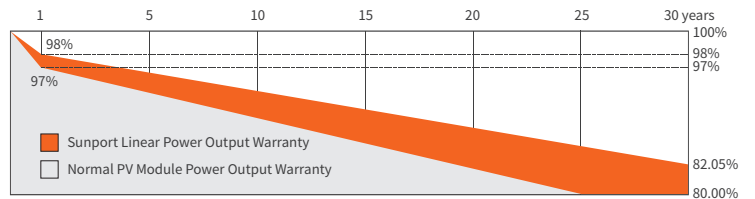
Lead Free

Eco-friendly PV design achieves Lead-free without soldering materials

Reinsurance Coverage for 30 Years



Insured by PICC and LLOYD'S



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

Comprehensive Qualifications & Certifications

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

- ★ TUV NORD Certification
- ★ISO 14001:2015 Environment Management System



Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP445NHJH	SPP450NHJH	SPP455NHJH	SPP460NHJH	SPP465NHJH
Max-Power(Pm)	W	445	450	455	460	465
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	43.5	43.7	43.9	44.1	44.3
Max-Power Current(I _m)	A	10.23	10.30	10.37	10.44	10.50
Open-Circuit Voltage(V _{oc})	V	52.5	52.7	52.9	53.1	53.3
Short-Circuit Current(I _{sc})	A	10.72	10.79	10.86	10.93	10.98
Module Efficiency(η _m)	%	20.1	20.3	20.5	20.7	21.0

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

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP445NHJH	SPP450NHJH	SPP455NHJH	SPP460NHJH	SPP465NHJH
Max-Power(Pm)	W	334	338	342	346	350
Max-Power Voltage(Vm)	V	40.0	40.2	40.4	40.6	40.8
Max-Power Current(I _m)	A	8.35	8.41	8.47	8.53	8.58
Open-Circuit Voltage(V _{oc})	V	48.9	49.1	49.3	49.5	49.7
Short-Circuit Current(I _{sc})	A	8.85	8.91	8.97	9.02	9.07

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

Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HC	682	31

Mechanical Characteristics

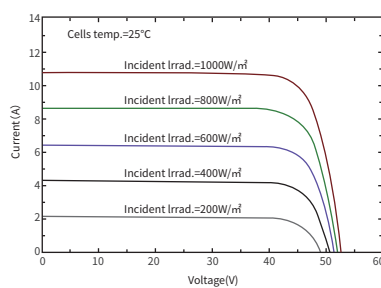
Dimension(L×W×H)	2006mmx1106mmx35mm
Weight	26kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	156(12x13)/Mono / 162.75*81.375mm
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP67 / IP68
Cable	4mm ² , 350mm (+)/ 150mm (-); Customizable
Connector	MC4 Compatible

Operating Conditions

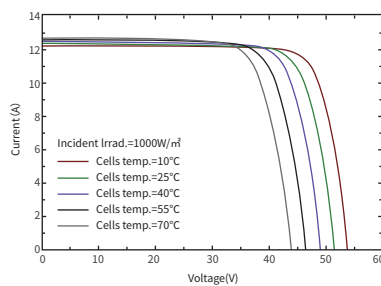
Max System Voltage	DC1500V(TUV)
Max Fuse Rated Current	15A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) /2400Pa (rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

I-V Curve

I-V Curve at different irradiation (SPP455NHJH)



I-V Curve at different temperature (SPP455NHJH)



Module Size

