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Solar Panel Guide Specification Data Sheet

Jiangsu Sunport Power Co., Ltd
SPP445-465NHJH MWT
SPP455NHJH

Also available on the web at
EnergyPal.com/jiangsu-sunport-power-co-ltd-solar-panels/spp455nhjh

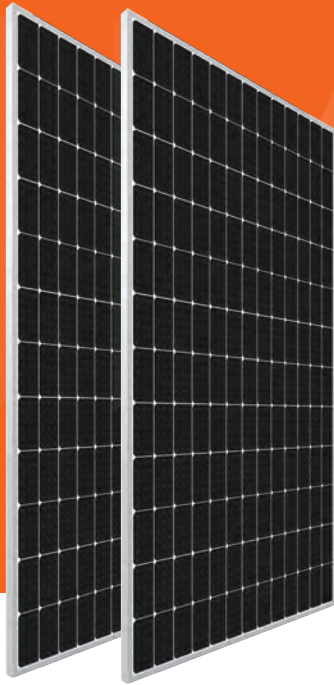


Classic Series

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

21%

Module efficiency up to 21%



Benchmark MWT PV Module

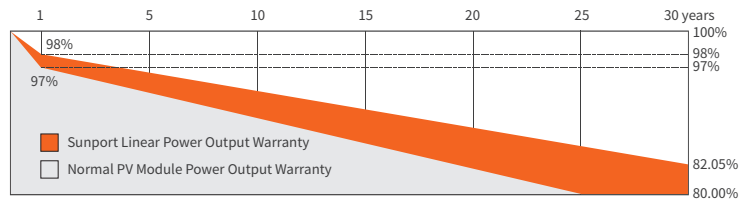
- Innovative Layout**
Innovative back contact module layout with asymmetric design for higher efficiency power
- High Efficiency**
MWT back contact cell and modules with busbar-free design and higher efficiency
- High Reliability**
Conductive back sheet 2D encapsulation without soldering, resulted lower 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 of 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



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

Comprehensive Qualifications & Certifications

- ★CQC 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



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(Voc)	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(Voc)	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 Voc	-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

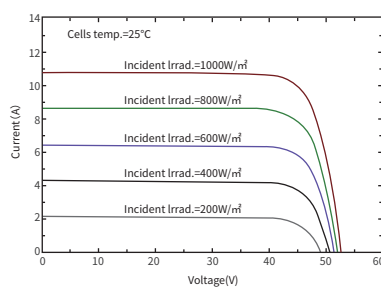
Dimension(L×W×H)	2006mmx1106mmx35mm
Weight	26kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	156(12x13)/Mono / 162.75*81.375mm
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP67 / IP68
Cable	4mm ² , 350mm (+)/ 150mm (-); Customizable
Connector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

Operating Conditions

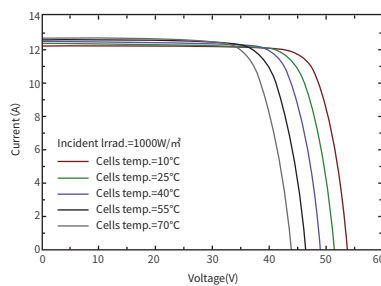
Max System Voltage	DC1500V(TUV)
Max Fuse Rated Current	15A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) /2400Pa (rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

I-V Curve

I-V Curve at different irradiation (SPP455NHJH)



I-V Curve at different temperature (SPP455NHJH)



Module Size

