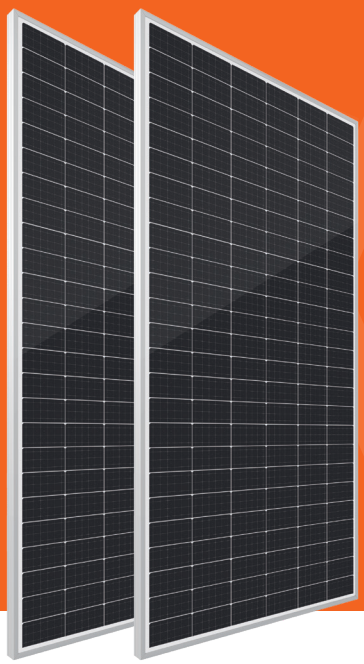
Sunport Power



Classic Series

C7 III · 450-470W

MWT Mono PERC Half-Cut Module

21.2%

Module efficiency up to 21.2%

Features

High Efficiency
Busbar-free design increases cell conversion efficiency, more power output can be achieved at low irradiance conditions

High Reliability
Conductive back sheet' s 2D encapsulation avoids welding stress and micro crack, resulting lower degradation under multiple harsh testing conditions

High ROI
Single-glass modules with global 30-year performance warranty bring higher return on investment

Low LCOE
Higher return on investment with higher power output

High Mechanical Loading Tolerance
Mechanical Load: 5400Pa(front)/2400Pa(rear)

Lead Free
Eco-friendly PV design achieves lead-free MWT module without soldering materials

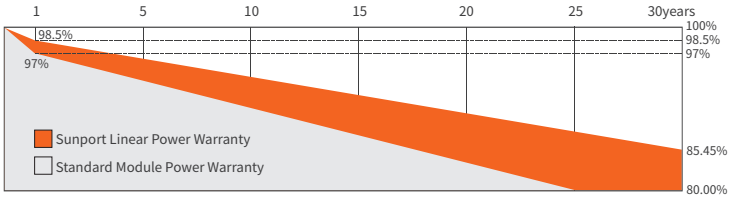
Reinsurance Coverage for 30 Years

15year Quality Warranty

30year Performance Warranty

Insured by PAIC and LLOYD'S

PING AN LLOYD'S



※1st year degradation less than 1.5%, 30 years linear power output 85.45% 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

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Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP450QHHH	SPP455QHHH	SPP460QHHH	SPP465QHHH	SPP470QHHH
Max-Power(Pm)	W	450	455	460	465	470
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	41.7	41.9	42.1	42.3	42.5
Max-Power Current(Im)	A	10.80	10.86	10.93	11.00	11.06
Open-Circuit Voltage(Voc)	V	51.0	51.1	51.2	51.3	51.4
Short-Circuit Current(Isc)	A	11.29	11.35	11.41	11.48	11.55
Module Efficiency(ηm)	%	20.3	20.5	20.8	21.0	21.2
STC: AM=1.5, Irradiation 1000W/m², Module Temperature 25°C Power Tolerance ±3%						

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP450QHHH	SPP455QHHH	SPP460QHHH	SPP465QHHH	SPP470QHHH
Max-Power(Pm)	W	336	340	344	348	352
Max-Power Voltage(Vm)	V	38.1	38.3	38.5	38.7	38.9
Max-Power Current(Im)	A	8.82	8.88	8.94	9	9.05
Open-Circuit Voltage(Voc)	V	46.6	46.7	46.8	46.9	47
Short-Circuit Current(Isc)	A	9.32	9.37	9.42	9.47	9.52
NMOT: Irradiation 800W/m², Ambient temperature 20°C, Wind Speed 1m/s						

Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	0.06%/°C

Package

Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HQ	620 / 650	31

Mechanical Characteristics

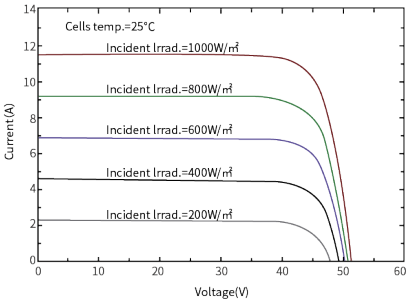
Dimension(L×W×H)	2141mmx1035mmx35mm
Weight	25kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	150(25x6) / Mono / 166mm(Half-cell)
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP68
Cable	4mm², 350mm (+) / 150mm (-); Customizable
Connector	MC4 Compatible

Operating Conditions

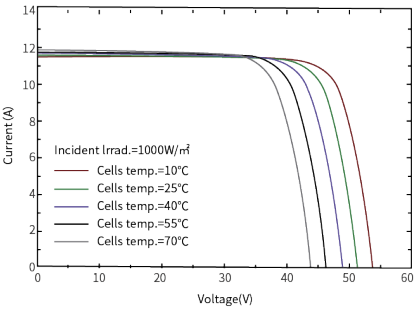
Max System Voltage	1500V(TUV)
Max Fuse Rated Current	20A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) /2400Pa (rear)
Max Allowable Hail Load	ϕ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

I-V Curve

I-V Curve at different irradiation (SPP465QHHH)



I-V Curve at different temperature (SPP465QHHH)



Module Size