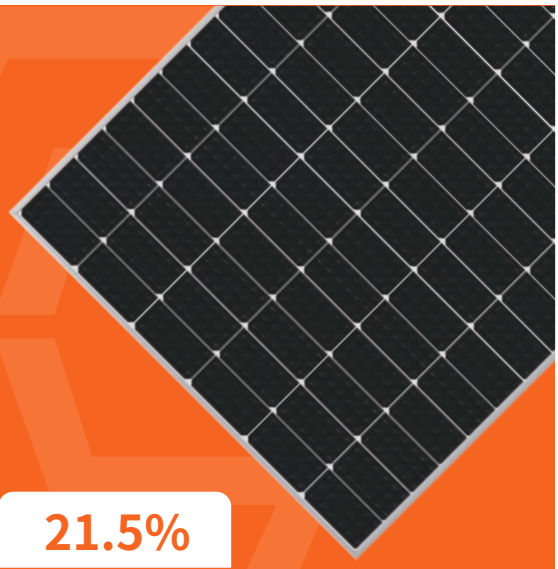
Sunport Power



Classic Series

C 6 III · 400-420W
MWT Mono PERC Half-Cut Module

21.5%
Module efficiency up to 21.5%

Features

Aesthetic Design
The design of busbar and tapping ribbon free makes module more aesthetic

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

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

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

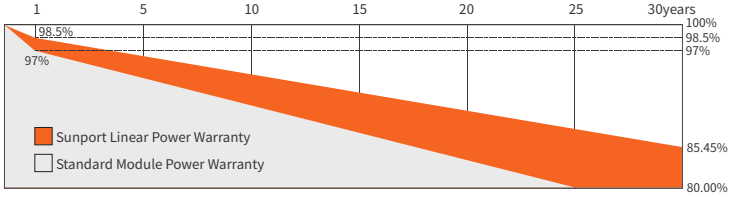
High Reliability
Conductive back sheet' s 2D encapsulation avoids welding stress and micro crack, resulting lower degradation under multiple harsh testing conditions

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



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

Insured by PAIC and LLOYD'S

PING AN LLOYD'S

Comprehensive Qualifications & Certifications

★ ISO 9001: 2015 Quality Management System
★ ISO 45001: 2018 Occupation Health Safety Management System
★ ISO 14001: 2015 Environment Management System
★CQC Top Runner Advanced Technology Certification
★TUV NORD Certification

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Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP400QHFH	SPP405QHFH	SPP410QHFH	SPP415QHFH	SPP420QHFH
Max-Power(Pm)	W	400	405	410	415	420
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	37.2	37.4	37.6	37.8	38.0
Max-Power Current(Im)	A	10.75	10.83	10.90	10.98	11.05
Open-Circuit Voltage(Voc)	V	45.4	45.6	45.8	46.0	46.2
Short-Circuit Current(Isc)	A	11.28	11.35	11.41	11.48	11.54
Module Efficiency(ηm)	%	20.5	20.7	21.0	21.2	21.5

STC: AM=1.5，Irradiation 1000W/m^2，Module Temperature 25°C　Power Production Tolerance ±3%

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP400QHFH	SPP405QHFH	SPP410QHFH	SPP415QHFH	SPP420QHFH
Max-Power(Pm)	W	298	302	306	310	314
Max-Power Voltage(Vm)	V	35.0	35.2	35.4	35.6	35.8
Max-Power Current(Im)	A	8.51	8.58	8.64	8.71	8.77
Open-Circuit Voltage(Voc)	V	42.3	42.5	42.7	42.9	43.1
Short-Circuit Current(Isc)	A	9.11	9.18	9.25	9.32	9.38

NMOT: Irradiation 800W/m^2, 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

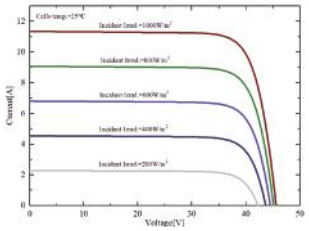
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HQ	864	36

Mechanical Characteristics

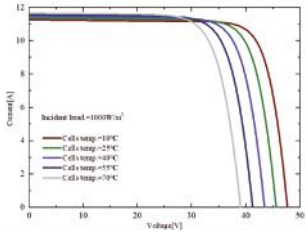
Dimension(L×W×H)	1889mmx1035mmx30mm
Weight	20.5kg
Glass type	High transmittance anti-reflective coated tempered glass /3.2mm
Cell	132(22x6) / Mono / Half-cell
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction box(protection degree)	IP68
Cable	4mm^2,350mm(+)/150mm(-) or Customized•Length
Connector	MC4 Compatible

I-V Curve

I-V Curves of SPP410QHFH at different irradiance



I-V Curves of SPP410QHFH at different cell temperature



Operating Conditions

Max. system voltage	DC1500V(IEC)
Max. series fuse rating	20A
Operating temperature range	-40°C～+85°C
Mechanical load	5400Pa/2400Pa
Max. hailstone impact(diameter/velocity)	Φ25mm hail, from 1 m of distance at 23 m/s
Application Class	Class A

Module Size