

# Classic Series

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

**21.5%**

Module efficiency up to 21.5%

Australian Version

Manufactured in China

### Features

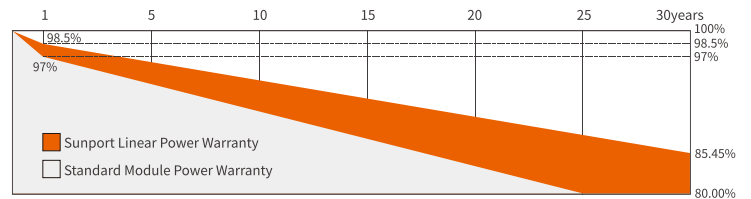
- Aesthetic Design**  
 The design of busbar and tapping ribbon free makes module more aesthetic
- High Efficiency**  
 Busbar-free design increases cell conversion efficiency, more power output can be achieved at low irradiance conditions
- Innovative Layout**  
 Innovative back contact module layout with asymmetric design for higher efficiency power
- 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
- Lead Free**  
 Eco-friendly PV design achieves lead-free MWT module without soldering materials

### Reinsurance Coverage for 30 Years

**15 year**  
Quality  
Warranty

**30 year**  
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

- ★ 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



## 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(I <sub>m</sub> )	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(I <sub>sc</sub> )	A	11.28	11.35	11.41	11.48	11.54
Module Efficiency(η <sub>m</sub> )	%	20.5	20.7	21.0	21.2	21.5

STC: AM=1.5, Irradiation 1000W/m<sup>2</sup>, 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(I <sub>m</sub> )	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(I <sub>sc</sub> )	A	9.11	9.18	9.25	9.32	9.38

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 Voc	-0.28%/°C
Temperature coefficient of I <sub>sc</sub>	0.06%/°C

## 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 <sup>2</sup> ,350mm(+)/150mm(-) or Customized-Length
Connector	TL-CABLE01S Jiangsu Tongling Electric Co.,Ltd.
Fire safety class:	Class C accprding to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

## Operating Conditions

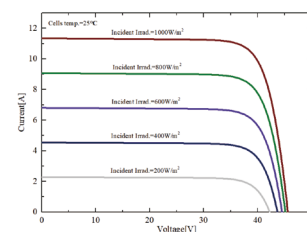
Max. system voltage	DC1500V(IEC)
Max. series fuse rating	20A
Operating temperature range	-40°C~+85°C
Mechanical load	5400Pa/2400Pa
Max. hailstone impact(diameter/velocity)	Φ25mm hail, from 1 m of distance at 23 m/s
Application Class	Class A

## Package

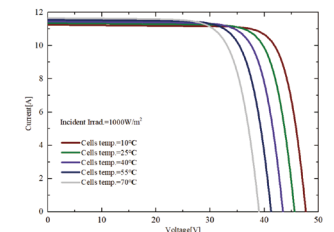
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HQ	864	36

## I-V Curve

I-V Curves of SPP410QHFH at different irradiance



I-V Curves of SPP410QHFH at different cell temperature



## Module Size

