

# 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

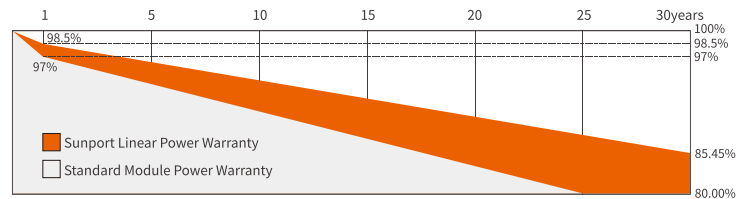
- Aesthetic Design**  
The design of busbar and tapping ribbon free makes module more aesthetic
- High Efficiency**  
Busbar-free design increases cell conversion efficiency, more power output can be achieved at low irradiance conditions
- Innovative Layout**  
Innovative back contact module layout with 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

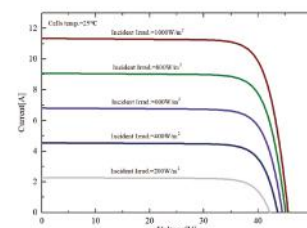
|  |  |
|--|--|
| Max. system voltage                      | DC1500V(IEC)                               |
| Max. series fuse rating                  | 20A  |
| Operating temperature range              | -40°C~+85°C                                |
| Mechanical load                          | 5400Pa/2400Pa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

## Package

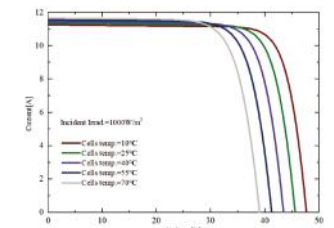
| Transportation | Container Size | Quantity(pcs) | Quantity(per pallet) |
|----------------|----------------|---------------|----------------------|
| Container      | 40' HQ         | 864           | 36                   |

## I-V Curve

I-V Curves of SPP410QHFH at different irradiance



I-V Curves of SPP410QHFH at different cell temperature



## Module Size

