

# Classic Series

**C 7 III · 415-435W**  
**MWT Mono PERC Half-Cut Module**

**21.3%**

Module efficiency up to 21.3%

## Features

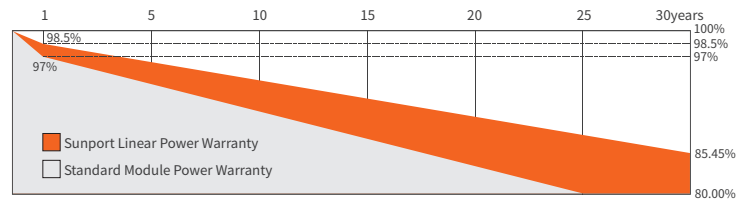
- Aesthetic Design**  
 The design of busbar and tapping ribbon free makes module more aesthetic
- High Efficiency**  
 Busbar-free design increases cell conversion efficiency, more power output can be achieved at low irradiance conditions
- Innovative Layout**  
 Innovative back contact module layout 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 (4A class)
- ★ TUV NORD Certification



## Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP415QHGH	SPP420QHGH	SPP425QHGH	SPP430QHGH	SPP435QHGH
Max-Power(Pm)	W	415	420	425	430	435
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	39.2	39.4	39.6	39.8	40.0
Max-Power Current(I <sub>m</sub> )	A	10.59	10.66	10.73	10.80	10.88
Open-Circuit Voltage(Voc)	V	47.0	47.2	47.4	47.6	47.8
Short-Circuit Current(I <sub>sc</sub> )	A	11.18	11.26	11.34	11.42	11.50
Module Efficiency(η <sub>m</sub> )	%	20.3	20.6	20.8	21.1	21.3

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	SPP415QHGH	SPP420QHGH	SPP425QHGH	SPP430QHGH	SPP435QHGH
Max-Power(Pm)	W	305	309	313	317	321
Max-Power Voltage(Vm)	V	36.4	36.6	36.8	37.0	37.2
Max-Power Current(I <sub>m</sub> )	A	8.38	8.44	8.51	8.57	8.63
Open-Circuit Voltage(Voc)	V	43.7	43.9	44.1	44.3	44.5
Short-Circuit Current(I <sub>sc</sub> )	A	9.05	9.11	9.17	9.23	9.30

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)	1973mmx1035mmx35mm
Weight	21.5kg
Glass type	High transmittance anti-reflective coated tempered glass /3.2mm
Cell	138(23x6) / 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	MC4 Compatible

## Operating Conditions

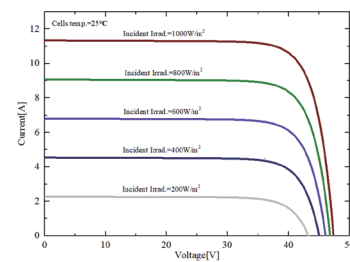
Max. system voltage	DC1500V(IEC)
Max. series fuse rating	20A
Operating temperature range	-40°C~+85°C
Mechanical load	5400Pa/2400Pa
Max. hailstone impact(diameter/velocity)	Φ25mm hail, from 1 m of distance at 23 m/s
Application Class	Class A

## Package

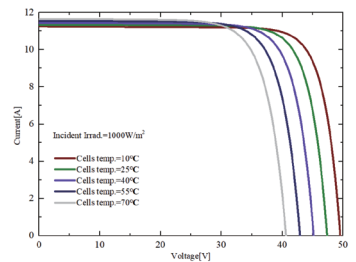
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HQ	682	31

## I-V Curve

I-V Curves of SPP425QHGH at different irradiance



I-V Curves of SPP425QHGH at different cell temperature



## Module Size

