

# Classic Series

## C9 · 570-590W MWT Mono PERC Half-Cut Module

**21.2%**

Module efficiency up to 21.2%

### Features

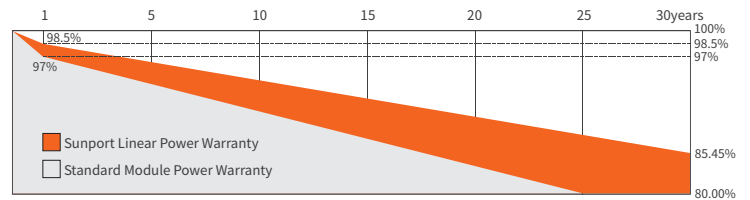
- Lower Voc, Higher Power**  
 Unique three-parallel circuits design combined with high density encapsulation technology reduces module's Voc, achieving higher power output
- Aesthetic Design**  
 The design of busbar and tapping ribbon free makes module more aesthetic
- High Efficiency and Reliability**  
 Busbar-free design increases cell conversion efficiency, more power output can be achieved at low irradiance conditions
- High ROI**  
 Lower Voc design reduces the BOS costs, Single-glass modules with global 30-year performance warranty bring higher return on investment
- High Safety**  
 Unique layout design reduces working current, heat loss and hot spot effect, decreases operational risks
- 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

- ★TUV NORD Certification
- ★ISO 14001:2015 Environment Management System
- ★ISO 9001:2015 Quality Management System
- ★ISO 45001: 2018 Occupation Health Safety Management System



## Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP570QHCH	SPP575QHCH	SPP580QHCH	SPP585QHCH	SPP590QHCH
Max-Power(Pm)	W	570	575	580	585	590
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	35.5	35.7	35.9	36.1	36.3
Max-Power Current(I <sub>m</sub> )	A	16.06	16.11	16.16	16.21	16.25
Open-Circuit Voltage(Voc)	V	42.5	42.74	42.9	43.1	43.3
Short-Circuit Current(I <sub>sc</sub> )	A	17.10	17.14	17.18	17.21	17.25
Module Efficiency(η <sub>m</sub> )	%	20.5	20.7	20.9	21.1	21.2

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

## Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP570QHCH	SPP575QHCH	SPP580QHCH	SPP585QHCH	SPP590QHCH
Max-Power(Pm)	W	424	428	432	436	440
Max-Power Voltage(Vm)	V	33.0	33.2	33.4	33.6	33.8
Max-Power Current(I <sub>m</sub> )	A	12.85	12.89	12.93	12.97	13.01
Open-Circuit Voltage(Voc)	V	39.9	40.1	40.3	40.5	40.7
Short-Circuit Current(I <sub>sc</sub> )	A	13.77	13.81	13.85	13.89	13.93

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)	2309mmx1203mmx35mm
Weight	29.5 kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	189(27x7) / Mono / Half-cell
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP68
Cable	4mm <sup>2</sup> , 350mm (+) / 150mm (-); Customizable
Connector	MC4 Compatible

## Operating Conditions

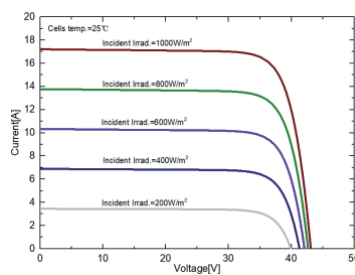
Max System Voltage	DC1500V(IEC)
Max Fuse Rated Current	25A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) /2400Pa (rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

## Package

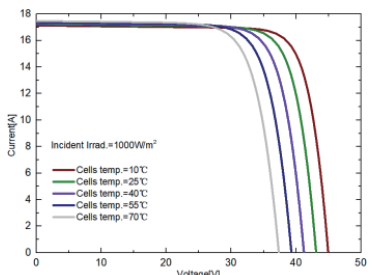
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HQ	558	31

## I-V Curve

I-V Curve at different irradiation (SPP585QHCH)



I-V Curve at different temperature (SPP585QHCH)



## Module Size

