

**Classic Series**

**C7·415-435W**  
MWT Mono PERC Half-Cut Module

**21.2%**

Module efficiency up to 21.2%

### Features

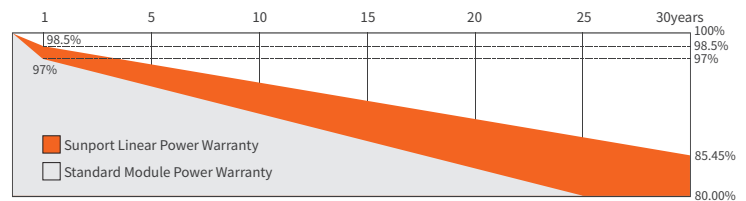
- High Efficiency**  
Busbar-free design increases cell conversion efficiency, more power output can be achieved at low irradiance conditions
- High Reliability**  
Conductive back sheet's 2D encapsulation avoids welding stress and micro crack, resulting lower degradation under multiple harsh testing conditions
- High ROI**  
Single-glass modules with global 30-year performance warranty bring higher return on investment
- Aesthetic Design**  
The design of busbar and tapping ribbon free makes module more aesthetic
- High Mechanical Loading Tolerance**  
Mechanical Load: 5400Pa(front)/2400Pa(rear)
- 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

- ★CQC Top Runner Advanced Technology Certification (4A class)
- ★TUV NORD Certification
- ★ISO 9001:2015 Quality Management System
- ★ISO 14001:2015 Environment Management System
- ★ISO 45001: 2018 Occupation Health Safety Management System



## Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP415NH7H	SPP420NH7H	SPP425NH7H	SPP430NH7H	SPP435NH7H
Max-Power(Pm)	W	415	420	425	430	435
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	40.0	40.2	40.4	40.6	40.8
Max-Power Current(I <sub>m</sub> )	A	10.38	10.45	10.52	10.60	10.67
Open-Circuit Voltage(Voc)	V	48.6	48.8	49.0	49.2	49.3
Short-Circuit Current(I <sub>sc</sub> )	A	10.89	10.95	11.01	11.05	11.12
Module Efficiency(η <sub>m</sub> )	%	20.3	20.5	20.7	21.0	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	SPP415NH7H	SPP420NH7H	SPP425NH7H	SPP430NH7H	SPP435NH7H
Max-Power(Pm)	W	312	316	320	324	329
Max-Power Voltage(Vm)	V	37.9	38.1	38.3	38.5	38.7
Max-Power Current(I <sub>m</sub> )	A	8.24	8.30	8.36	8.42	8.51
Open-Circuit Voltage(Voc)	V	45.80	46.0	46.20	46.4	46.60
Short-Circuit Current(I <sub>sc</sub> )	A	8.81	8.86	8.91	8.94	9.00

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

## Package

Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HQ	682 / 726	31

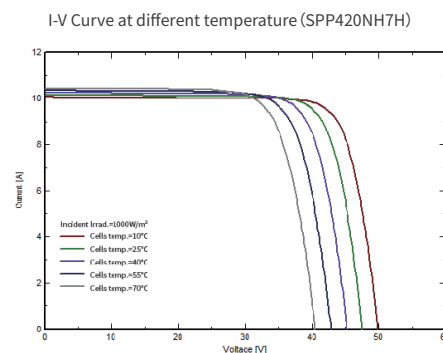
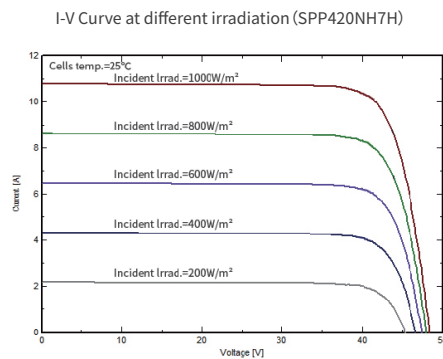
## Mechanical Characteristics

Dimension(L×W×H)	2019mmx1015mmx35mm
Weight	22.8kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	144(24x6) / 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	1500V(TUV)
Max Fuse Rated Current	15A
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

## I-V Curve



## Module Size

