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Solar Panel Guide Specification Data Sheet

Jiangsu Sunport Power Co., Ltd
SPP410-430NH7H MWT
SPP425NH7H

Also available on the web at
EnergyPal.com/jiangsu-sunport-power-co-ltd-solar-panels/spp425nh7h



Classic Series

C7·410-430W MWT Module Mono Half-cut 72 Cells

21.0%

Module efficiency up to 21.0%



Benchmark MWT PV Module



High Efficiency

MWT back contact cell and modules with busbar-free design and higher efficiency



Superior Warranty

The only single-glass module with 30-year power warranty by LLOYD'S&PICC worldwide



High Anti-Pressure Ability

Mechanical Load: 5400Pa(front)/2400Pa(rear)



High Reliability

Conductive back sheet 2D encapsulation without soldering, resulted lower degradation under multiple extreme testing condition



Low LCOE

Higher return of investment with higher power output



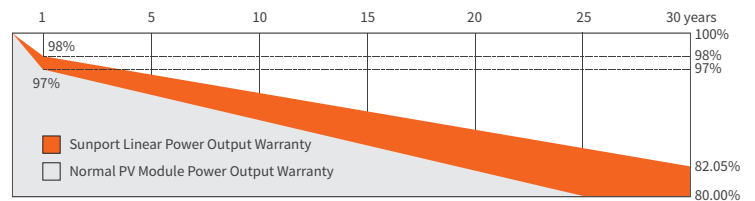
Lead Free

Eco-friendly PV design achieves Lead-free without soldering materials

Reinsurance Coverage for 30 Years



Insured by PICC and LLOYD'S



※1st year degradation less than 2%, 30 years linear power output 82% guaranteed.

Comprehensive Qualifications & Certifications

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

- ★TUV NORD Certification
- ★ISO 14001:2015 Environment Management System



Jiangsu Sunport Power Corp., Ltd

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Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP410NH7H	SPP415NH7H	SPP420NH7H	SPP425NH7H	SPP430NH7H
Max-Power(Pm)	W	410	415	420	425	430
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	39.6	39.8	40.0	40.2	40.4
Max-Power Current(I _m)	A	10.35	10.43	10.50	10.57	10.65
Open-Circuit Voltage(Voc)	V	48.2	48.4	48.6	48.8	49.0
Short-Circuit Current(I _{sc})	A	10.72	10.78	10.84	10.90	10.96
Module Efficiency(η _m)	%	20.0	20.2	20.5	20.7	21.0

STC: AM=1.5, Irradiation 1000W/m², Module Temperature 25°C

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP410NH7H	SPP415NH7H	SPP420NH7H	SPP425NH7H	SPP430NH7H
Max-Power(Pm)	W	308	312	316	320	324
Max-Power Voltage(Vm)	V	36.1	36.3	36.5	36.7	36.9
Max-Power Current(I _m)	A	8.53	8.60	8.66	8.72	8.78
Open-Circuit Voltage(Voc)	V	44.0	44.2	44.4	44.6	44.8
Short-Circuit Current(I _{sc})	A	8.87	8.94	9.00	9.05	9.10

NMOT: Irradiation 800W/m², ambient temperature 20°C, Wind Speed 1m/s

Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of P _{max}	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of I _{sc}	0.06%/°C

Package

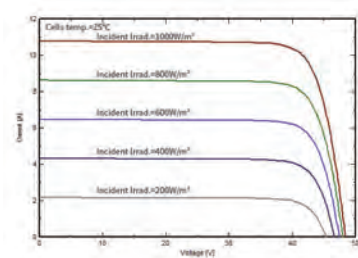
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40' HC	682 / 726	31

Mechanical Characteristics

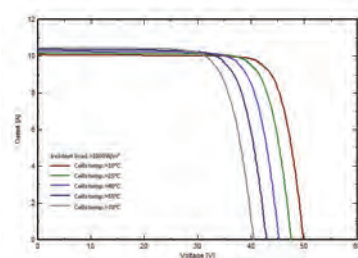
Dimension(L×W×H)	2020mmx1016mmx40mm
Weight	23.5kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	144(24x6) / Mono / 162.75mm(Half-cell)
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP67 / IP68
Cable	4mm ² , 350mm (+) / 150mm (-); Customizable
Connector	MC4 Compatible

I-V Curve

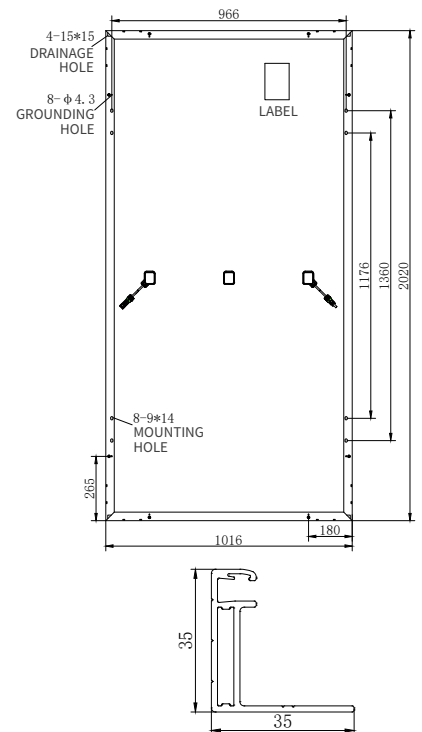
I-V Curve at different irradiation (SPP420NH7H)



I-V Curve at different temperature (SPP420NH7H)



Module Size



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