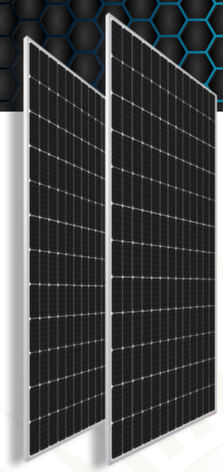


C7 II 445-465W MWT Module
Mono Half-cut 78 Cells

21 %
Module efficiency up to 21 %

Benchmark MWT PV Module

Innovative Layout
Innovative back contact module layout with asymmetric design for higher efficiency power

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

High ROI
Higher return of investment with higher power output

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

Superior Warranty
he only single-glass module with -30year power warranty by LLOYD›S& PICC worldwide

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

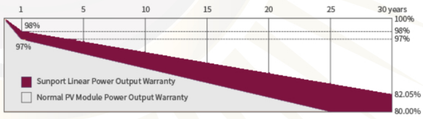
Reinsurance Coverage for 30 Years

12 year Quality Warranty

30 year Performance Warranty

Insured by PICC and LLOYD'S

PICC LLOYD'S



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

- 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

Electrical Characteristics at Standard Test Conditions (STC)

Spec/Model	Unit	SPP445NHJH	SPP450NHJH	SPP455NHJH	SPP460NHJH	SPP465NHJH
Max-Power (Pm)	W	445	450	455	460	465
Power Tolerance	W			0-+5		
Max-Power Voltage (Vm)	V	42.5	43.7	43.9	44.1	44.3
Max-Power Current (Im)	A	10.23	10.3	10.37	10.44	10.50
Open-Circuit Volyage (Voc)	V	52.5	52.7	52.9	53.1	53.3
Short-Circuit Current (Isc)	A	10.72	10.79	10.86	10.93	10.98
Module Efficiency (nm)	%	20.1	20.3	20.5	20.7	21.0
STC: AM 1.5, Irraiation 1000W/M2, Module Temperature 25°C						

Electrical Characteristics at Nominal Module Operating Temperature(NMOT)

Spec/Model	Unit	SPP445NHJH	SPP450NHJH	SPP455NHJH	SPP460NHJH	SPP465NHJH
Max-Power (Pm)	W	334	338	342	346	350
Max-Power Voltage (Vm)	V	40.0	40.2	40.4	40.6	40.8
Max-Power Current (Im)	A	8.35	8.41	8.47	8.53	8.58
Open-Circuit Voltage (Voc)	V	48.9	49.1	49.3	49.5	49.7
Short-Circuit Current (Isc)	A	8.85	8.91	8.97	9.02	9.07
NMOT: Irradiation800W/m2, ambient temperature 20°C, Wind Speed 1m/s						

Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	0.06%/°C

Package

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

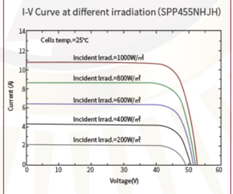
Mechanical Characteristics

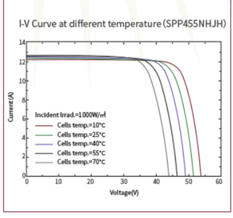
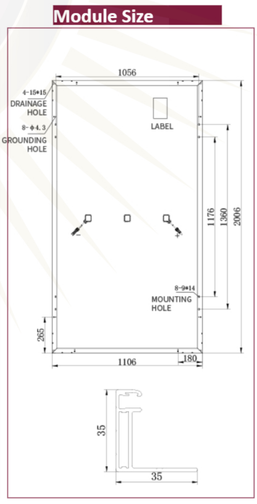
Dimension(L×W×H)	2006mmx1106mmx35mm
Weight	26kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	156(12x13)/Mono / 162.75*81.375mm
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP67 / IP68
Cable	4mm2,350mm (+)/ 150mm (-);Customizable
Connector	MC4 Compatible

Operating Conditions

Max System Voltage	DC1500V(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 Cure





Module Size