

Classic Series

**C7Q · 405-425W MWT Module
Cast-Mono Half-cut 72 Cells**

20.7%

Module efficiency up to 20.7%

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

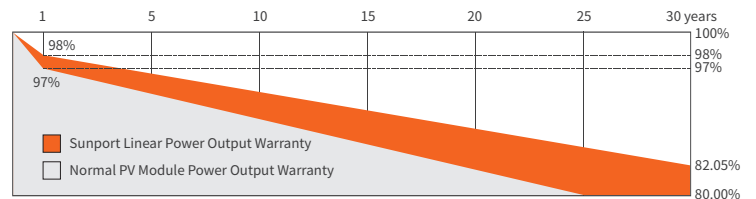
Eco-friendly PV design achieves Lead-free without soldering materials

Reinsurance Coverage for 30 Years



Insured by PICC and LLOYD'S

PICC LLOYD'S



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

Comprehensive Qualifications & Certifications

- ★CQC&CGC 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



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Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP405DH7H	SPP410DH7H	SPP415DH7H	SPP420DH7H	SPP425DH7H
Max-Power(Pm)	W	405	410	415	420	425
Power Tolerance	W			0~+5		
Max-Power Voltage(Vm)	V	40.0	40.2	40.4	40.6	40.8
Max-Power Current(I _m)	A	10.13	10.20	10.27	10.35	10.42
Open-Circuit Voltage(Voc)	V	48.4	48.7	48.9	49.1	49.3
Short-Circuit Current(I _{sc})	A	10.68	10.72	10.76	10.80	10.86
Module Efficiency(η _m)	%	19.7	20.0	20.2	20.5	20.7

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

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP405DH7H	SPP410DH7H	SPP415DH7H	SPP420DH7H	SPP425DH7H
Max-Power(Pm)	W	303	307	311	315	319
Max-Power Voltage(Vm)	V	36.7	36.9	37.1	37.3	37.5
Max-Power Current(I _m)	A	8.26	8.32	8.38	8.45	8.51
Open-Circuit Voltage(Voc)	V	44.0	44.3	44.5	44.7	44.9
Short-Circuit Current(I _{sc})	A	8.79	8.82	8.86	8.90	8.96

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

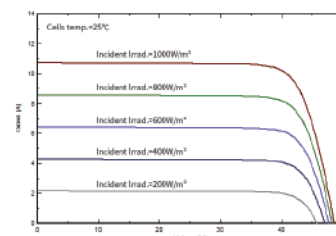
Dimension(L×W×H)	2020mmx1016mmx35mm
Weight	22.8kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	144(24x6) / Cast-Mono / 162.75mm (half-cell)
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP67 / IP68
Cable	4mm ² , 350mm (+) / 150mm (-); Customizable
Connector	MC4 Compatible

Operating Conditions

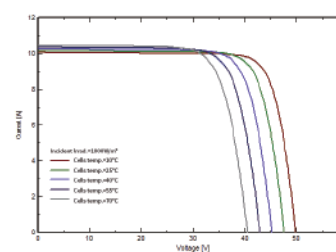
Max System Voltage	1500V(TUV)
Max Fuse Rated Current	15A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) / 2400Pa (rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

I-V Curve

I-V Curve at different irradiation (SPP415DH7H)



I-V Curve at different temperature (SPP415DH7H)



Module Size

