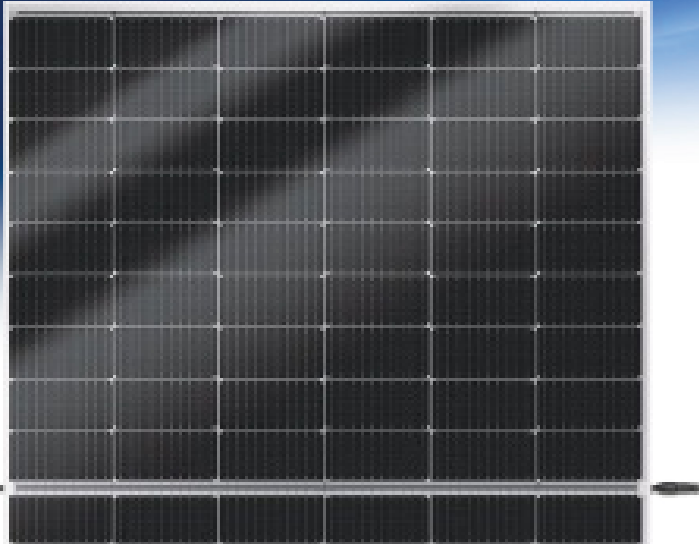


MOBICOM^{PRO} 182 PERC Solar Module



Lightweight
High-strength
405-420W

21.6%

Module efficiency up to

Features

- Lightweight Design**
4.7 kg/m² weight, meeting various requirements for low-load roof.
- High Strength**
The surface is made of ultra-thin tempered glass, offering excellent hail impact resistance and strong load capacity..
- High Efficiency**
High light transmittance performance with over 3% more power than similar products resulting in increased power generation and higher income.
- Stable and Reliable Characteristics**
Meet IEC61215 stringent environment test with low attenuation characteristics.
- Convenient Installation**
Multiple installation methods, adhesive fixing or removable lock block fixing.
- Safe and Reliable**
Prevent dust stratification, lightweight and safe, convenient operation and maintenance.

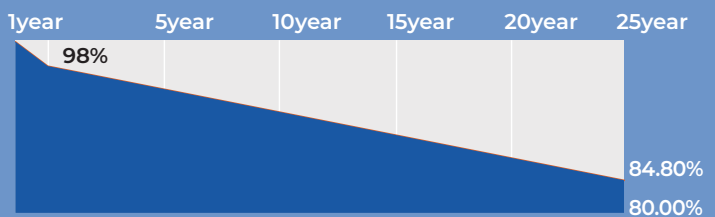
Reinsurance Coverage for 25 Years

12year
Quality
Warranty

25year
Performance
Warranty

Insured by:

LLOYD'S



Within the first year from the date of installation and under normal operation, the output power shall not be less than 98% of the product's minimum output power as specified. Thereafter, the output may decrease by a maximum of 0.55% per year. After 25 years, the product's output power shall not be less than 84.8% of its minimum specified output power.

Comprehensive Qualifications & Certifications

ISO 9001:2015 Quality Management System

ISO 14001:2015 Occupation Health Safety Management System

ISO 45001: 2018 Environment Management System



Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	PML405AH5T	PML410AH5T	PML415AH5T	PML420AH5T
Max-Power(Pm)	W	405	410	415	420
Power Tolerance	W	0~+5			
Max-Power Voltage(Vm)	V	31.12	31.28	31.45	31.66
Max-Power Current(Im)	A	13.04	13.13	13.22	13.29
Open-Circuit Voltage(Voc)	V	37.00	37.20	37.40	37.60
Short-Circuit Current(Isc)	A	14.04	14.10	14.16	14.22
Effective Module Efficiency(ηm)	%	20.9	21.2	21.4	21.6
STC: AM=1.5, Irradiation 1000W/m², Module Temperature 25°C Power Tolerance ±3%					

Electrical Characteristics at Nominal Module Operating Temperature(NMOT)

Spec/Model	Unit	PML405AH5T	PML410AH5T	PML415AH5T	PML420AH5T
Max-Power(Pm)	W	306	310	314	318
Max-Power Voltage(Vm)	V	28.9	29.1	29.3	29.5
Max-Power Current(Im)	A	10.61	10.67	10.73	10.79
Open-Circuit Voltage(Voc)	V	34.8	35.0	35.2	35.4
Short-Circuit Current(Isc)	A	11.22	11.28	11.32	11.36
NMOT: Irradiation 800W/m², Ambient temperature 20°C, Wind Speed 1m/s					

Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of Pmax	-0.35%/°C
Temperature coefficient of Voc	-0.26%/°C
Temperature coefficient of Isc	0.048%/°C

Operating Conditions

Max. system voltage	DC1500V(IEC)
Max. series fuse rating	25A
Operating temperature range	-40°C~+85°C

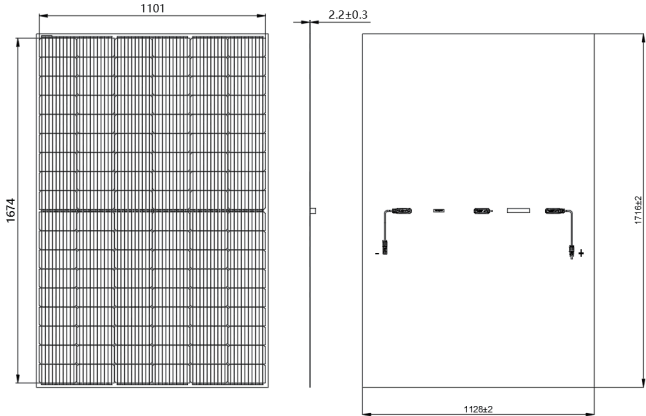
Mechanical Characteristics

Installation Module Dimension (L×W×H)	1716mm×1128mm×2.2mm
Weight	9.1 kg
Glass Type	High Transmittance Tempered Glass
Cell (quantity / material / type / dimensions)	108(6x18) / Mono / 182*91mm
Encapsulant	POE
Junction box(protection degree)	IP68
Cable (length/cross-section area)	Customizable / 4mm²
Connector	MC4 Compatible

Package

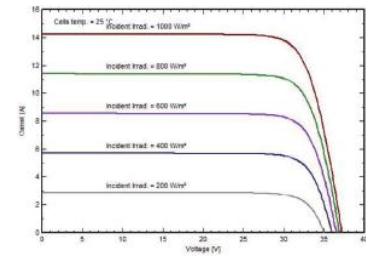
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40'HQ	-	-
Platform Trailer	13m	1120	40
Platform Trailer	17.5m	1440	40

Module Size



I-V Curve

I-V Curves of PML410AH5T at different irradiance



I-V Curves of PML410AH5T at different cell temperature

