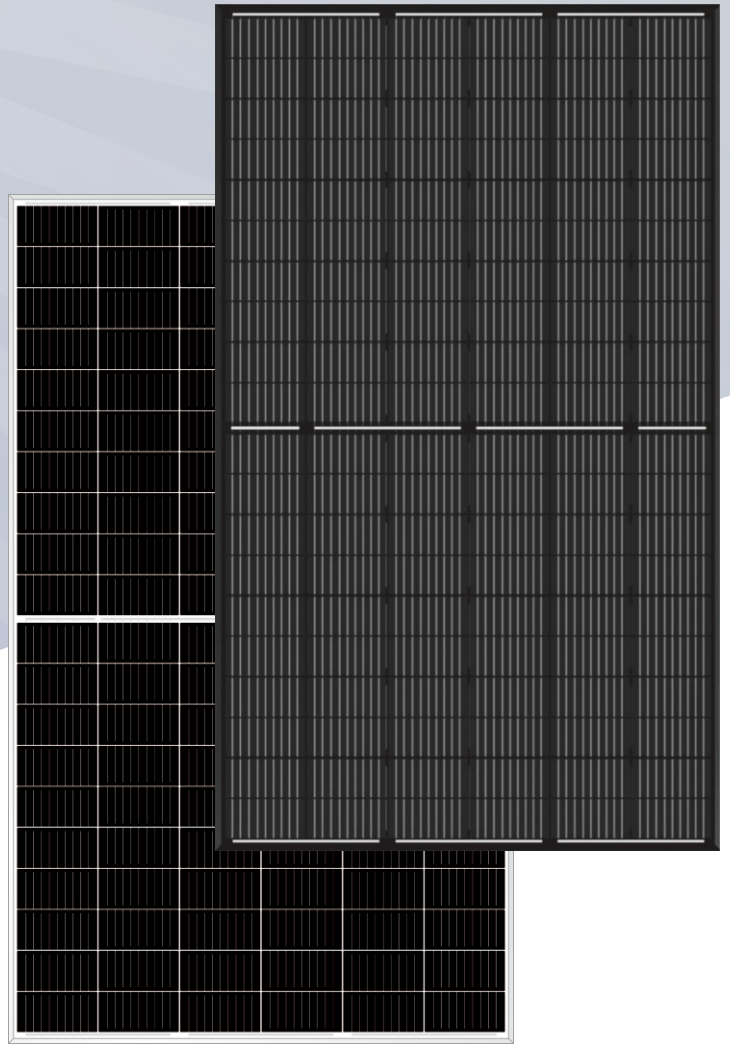




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# PLM-455H8MB-120 SERIES

Monocrystalline Silicon Half Cell Solar Module  
Power range 450W-455W



Insurance



**21.01%**

MAX MODULE EFFICIENCY  
AFTER INSTALED

**30**

YEARS LIMITED  
PRODUCT WARRANTY

**30**

YEARS PERFORMANCE  
WARRANTY

\*30 year product and performance warranties are applicable only to solar modules supplied and installed by Project Better Energy Ltd in accordance with Project Better Energy limited warranty terms. Solar modules installed outside of these terms will revert to standard 12 years product warranty and 25 year performance warranty in accordance with Perlight Solar warranty terms.

## PERLIGHT SOLAR

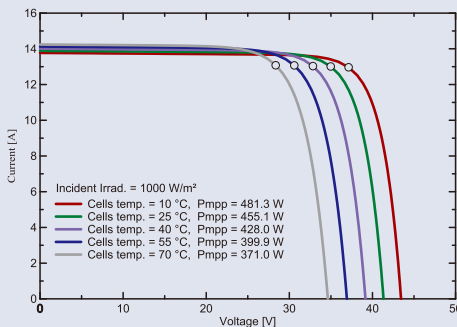
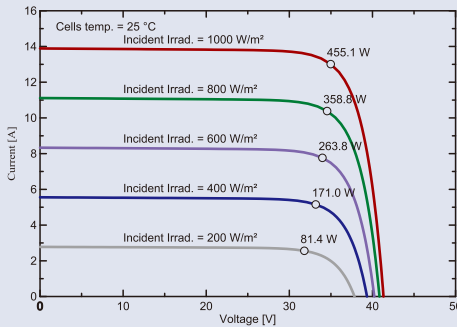
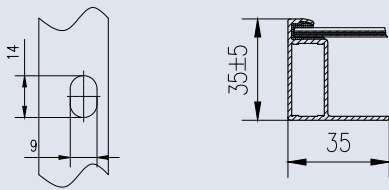
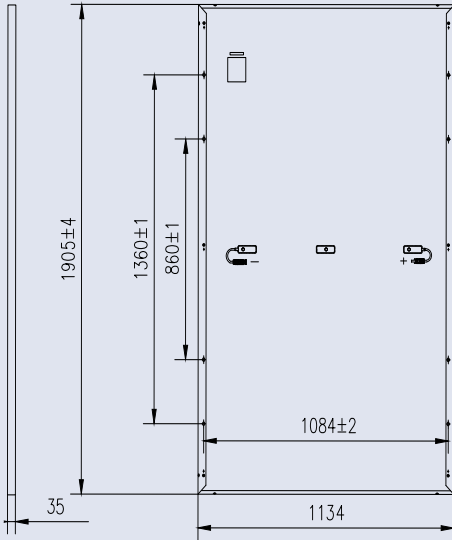
Founded in 2006, Perlight Solar is growing to be the world leading residential smart solar PV products manufacturer & service provider.

Based on more than 30 years manufacturing experience of Baolite Group, along with the implementation of MES & ERP system, Perlight Solar have realized lean and flexible manufacturing of solar cell & solar module.

With corporate values "Customer First, Talent Excellence, Pragmatic Innovation, Integrity & Win-Win", Perlight Solar will continue to provide excellent smart energy products & service to global families and vision to be the leading brand in global distributed smart energy.



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Perlight Partners



## Electrical Characteristics (STC\*)

Maximum Power at STC (Pmp)	450	455
Maximum Power Voltage (Vmp)	34.67	34.84
Maximum Power Current (Imp)	12.98	13.06
Open Circuit Voltage (Voc)	41.24	41.33
Short Circuit Current (Isc)	13.80	13.89
Module Efficiency at STC (nm)	20.78%	21.01%

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM 1.5g spectrum.  
Power tolerance: ±5%

## Electrical Characteristics (NMOT\*)

Maximum Power at STC (Pmp)	340	343.8
Maximum Power Voltage (Vmp)	32.48	32.62
Maximum Power Current (Imp)	10.47	10.54
Open Circuit Voltage (Voc)	38.60	38.69
Short Circuit Current (Isc)	11.04	11.12

NOCT: 800W/m<sup>2</sup> irradiance, 20°C environment temperature, 1m/s wind speed.

## Mechanical Specifications

Solar Cells	PERC Mono crystalline 166×83mm
External Dimensions	1905×1134×35mm(L×W×H)
Front Glass	3.2mm AR coating tempered glass, low iron
Weight	23Kg±5%
Output Cable	4.0 mm <sup>2</sup> , cable length 1100mm
Connector	MC4 Compatible
Junction Box	IP 68, 3 diodes
Frame	Anodized aluminium alloy

## Temperature Characteristics

Isc Temperature Coefficient	+0.05%/°C
Voc Temperature Coefficient	-0.30%/°C
Pmax Temperature Coefficient	-0.35%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

## Operating Characteristics

Max. system voltage	DC1500V
Limiting reverse current	25A
Operating temperature range	-40°C~85°C
Max. static load front (e.g., snow)	3600Pa
Max. static load back (e.g., wind)	1600Pa
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

## Package

Container	40'HQ
Pieces Per Big Pallet	72pcs panels (36+36)
Big Pallets Per Container	12
Pieces Per Container	864pcs panels