

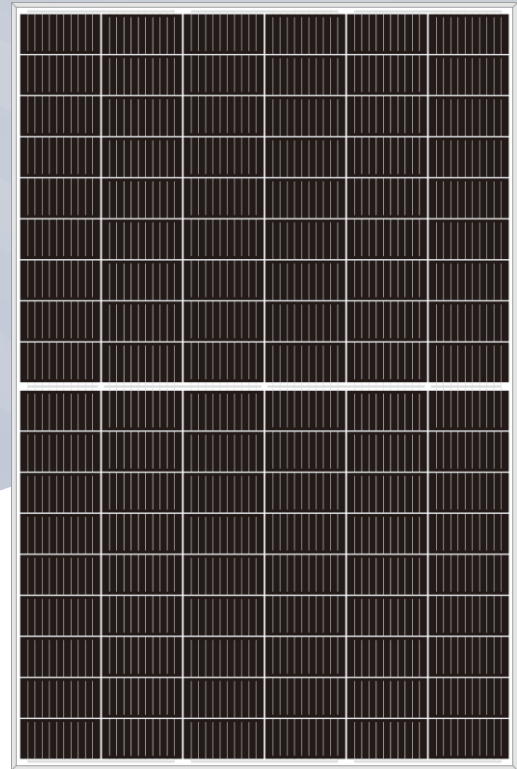


PERLIGHT SOLAR
Powering Possibilities

PLM-415H8M-108 SERIES

Monocrystalline Silicon Half Cell Solar Module
Power range 400W-420W

Plus extra 5W power



Insurance



Linear Power Output Warranty

12

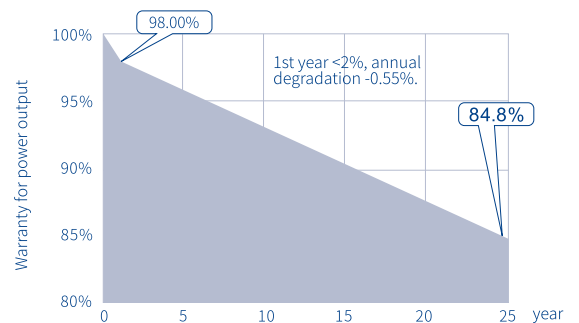
12-year
warranty for
materials.

25

25-year
warranty for
linear power
output.

21.5%

MAX MODULE EFFICIENCY
AFTER INSTALLED



PERLIGHT SOLAR

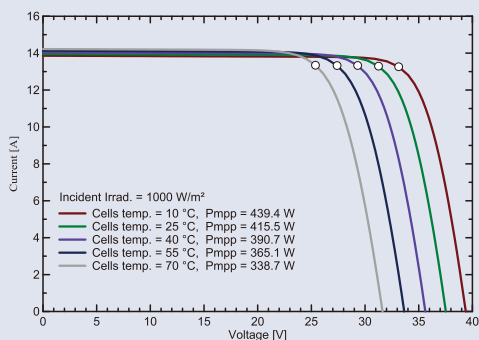
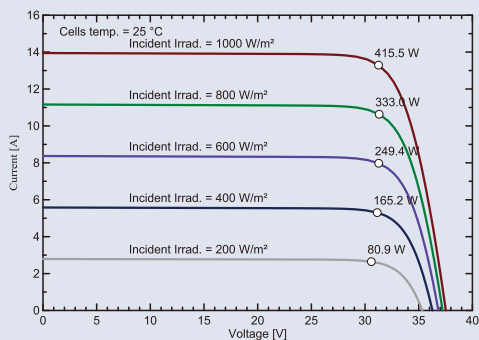
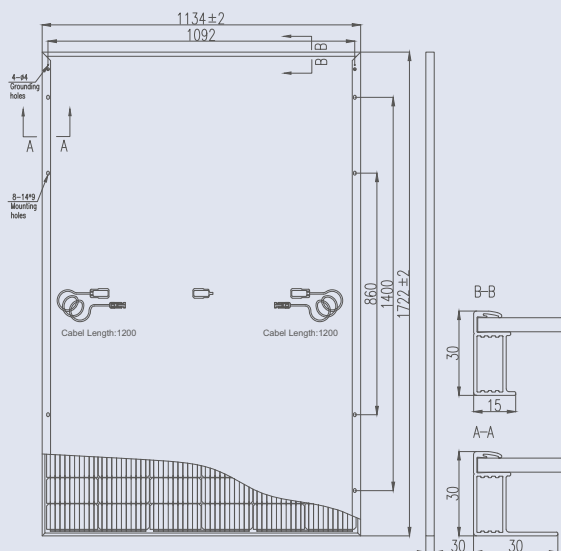
Founded in 2006, Perlight Solar is growing to be the world leading residential smart solar PV products manufacturer & service provider.

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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Powering Possibilities



Perlight Partners

Electrical Characteristics (STC*)

Maximum Power at STC (Pmp)	400	405	410	415	420
Maximum Power Voltage (Vmp)	30.58	30.73	30.88	31.03	31.18
Maximum Power Current (Imp)	13.08	13.18	13.28	13.38	13.47
Open Circuit Voltage (Voc)	37.08	37.23	37.38	37.53	37.68
Short Circuit Current (Isc)	13.77	13.87	13.92	13.95	13.98
Module Efficiency at STC (nm)	20.5%	20.7%	21.0%	21.3%	21.5%

STC: 1000W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum.
Power tolerance: ±3%

Electrical Characteristics (NMOT*)

Maximum Power at STC (Pmp)	302.8	306.6	310.3	314.1	317.9
Maximum Power Voltage (Vmp)	28.76	28.90	29.04	29.18	29.32
Maximum Power Current (Imp)	10.52	10.60	10.68	10.76	10.84
Open Circuit Voltage (Voc)	34.72	34.86	35.00	35.15	35.29
Short Circuit Current (Isc)	10.82	10.90	10.97	11.05	11.12

NOCT: 800W/m² irradiance, 20°C environment temperature, 1m/s wind speed.

Mechanical Properties

Cell Size	182mm×91mm
Number of Cells	108 [6×18]
Module Dimension	1722×1134×30mm(L×W×H)
Weight	20.5Kg
Front Glass	High Transmission Glass 3.2mm
Frame	Anodized Aluminium Alloy
Junction Box	IP 68 (3 Diodes)
Cable Length	TUV 1×4.0 mm ² , (+):1200mm/(-):1200mm or Customized Length

Temperature Ratings

Isc Temperature Coefficient	+0.045%/°C
Voc Temperature Coefficient	-0.27%/°C
Pmax Temperature Coefficient	-0.34%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Working Conditions

Max. system voltage	DC1500V
Limiting reverse current	25A
Operating temperature range	-40°C~85°C
Max. static load front (e.g., snow)	5400Pa
Max. static load back (e.g., wind)	2400Pa
Safety Class	II

Packaging Configuration

Container	40'HQ
Pieces Per Pallet	36
Pallets Per Container	26
Pieces Per Container	936