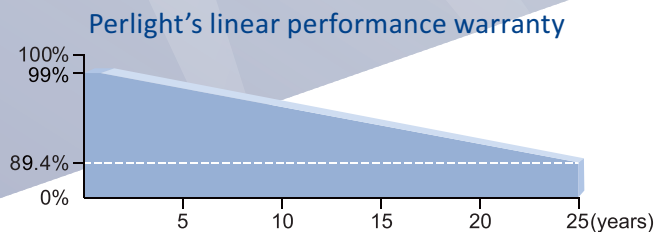
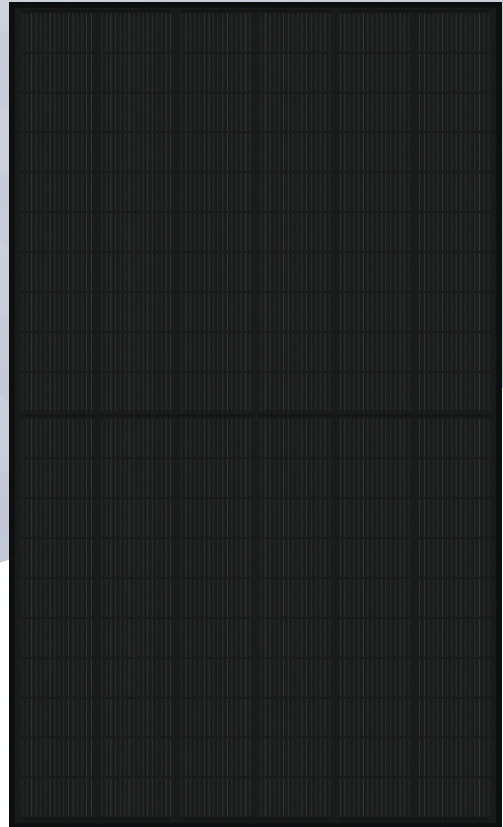




PERLIGHT SOLAR
Powering Possibilities

PLM-500H8NB-120 SERIES

Half-Cell Mono Black Module
Power Range 485W-505W



23.34%

MAX MODULE EFFICIENCY
AFTER INSTALLED

12

YEARS LIMITED
PRODUCT WARRANTY

25

YEARS PERFORMANCE
WARRANTY



High Power Output

- Better light trapping and current collection to improve module power output and reliability



Outstanding Low Light Performance

- Higher power output even under low-light environments like on cloudy or foggy days



Low LID (Light Induced Degradation)

- Low LID naturally which can increase power generation



Better Temperature Coefficient

- Higher power generation under working conditions, thanks to passivating contact cell technology



PID Resistance

- Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



Enhanced Mechanical Load

- Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)



Withstanding Harsh Environment

- Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



Sustainable Product

- High percentage of recyclable materials

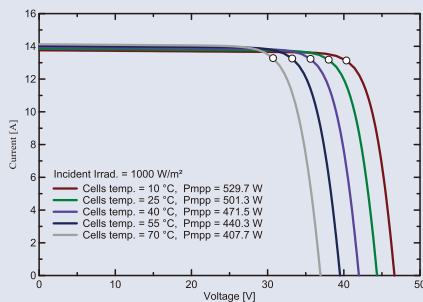
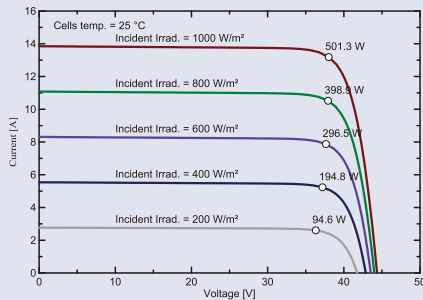
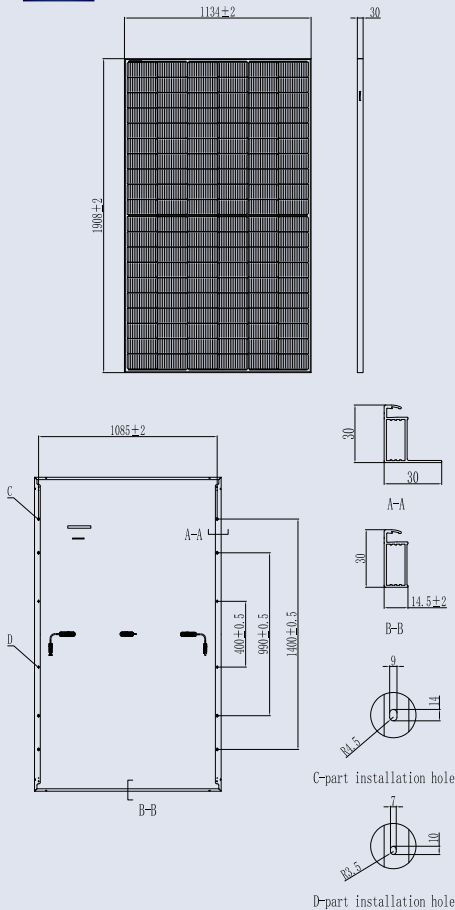


Insurance





PERLIGHT SOLAR
Powering Possibilities



Perlight Partners



More Than 40 Years Manufacturing
Experience Of Baolite Group Since 1982

Electrical Properties (STC*)

Power Output (Wp)	485	490	495	500	505
Voltage Mpp-Vmpp (V)	37.30	37.47	37.64	37.81	37.98
Current Mpp-Impp (A)	13.01	13.09	13.17	13.25	13.33
Voltage Open Circuit-Voc (V)	43.85	44.02	44.19	44.36	44.53
Short Circuit Current-Isc (A)	13.70	13.75	13.80	13.85	13.90
Module Efficiency (%)	22.41	22.64	22.87	23.10	23.34

*STC: Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5

Electrical Properties (NOCT*)

Power Output (Wp)	367.1	370.8	374.5	378.3	382.1
Voltage Mpp-Vmpp (V)	35.90	36.06	36.22	36.38	36.55
Current Mpp-Impp (A)	10.21	10.27	10.33	10.39	10.45
Voltage Open Circuit-Voc (V)	41.70	41.86	42.02	42.18	42.34
Short Circuit Current-Isc (A)	10.77	10.82	10.85	10.89	10.93

*NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Mechanical Properties

Cell Size	182mm×91mm
Number of Cells	120 [2× (10×6)]
Module Dimension	1908×1134×30mm(L×W×H)
Weight	24.2Kg±3%
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
Connector	Stäubli MC4 EVO 2A

Packaging Configuration

Packing Type	40'HQ
Piece / Pallet	36
Piece / Container	864

Operating Properties

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	±3%

Temperature Coefficient

Temperature Coefficient of Pmax	+0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

PERLIGHT SOLAR CO.,LTD.

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