



PERLIGHT SOLAR
Powering Possibilities

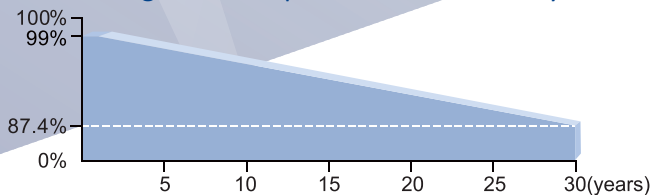
PLM-500DH8N-120 SERIES

N-type TOPCon Bifacial Dual Glass

MONOCRYSTALLINE MODULE
Power Range 495W-505W



Perlight's linear performance warranty



25.79%

MAX MODULE EFFICIENCY
AFTER INSTALLED

15

YEARS LIMITED
PRODUCT WARRANTY

30

YEARS PERFORMANCE
WARRANTY



High Power Output

- Better light trapping and current collection to improve module power output and reliability
- Bifacial performance, 25% max module efficiency according to BSTC, bifaciality 80±5%



Outstanding Low Light Performance

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



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

- Mechanical performance up to 5400 Pa positive load and 4000 Pa negative load



Sustainable Product

- High percentage of recyclable materials



Low LID (Light Induced Degradation)

- Low LID naturally which can increase power generation

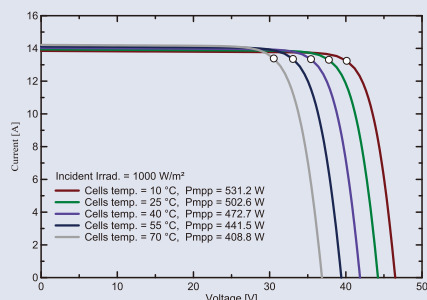
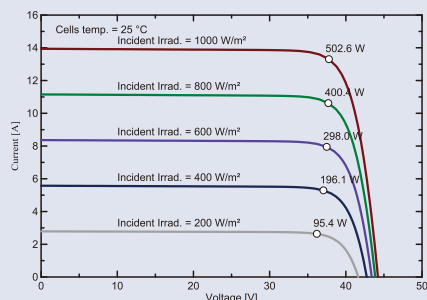
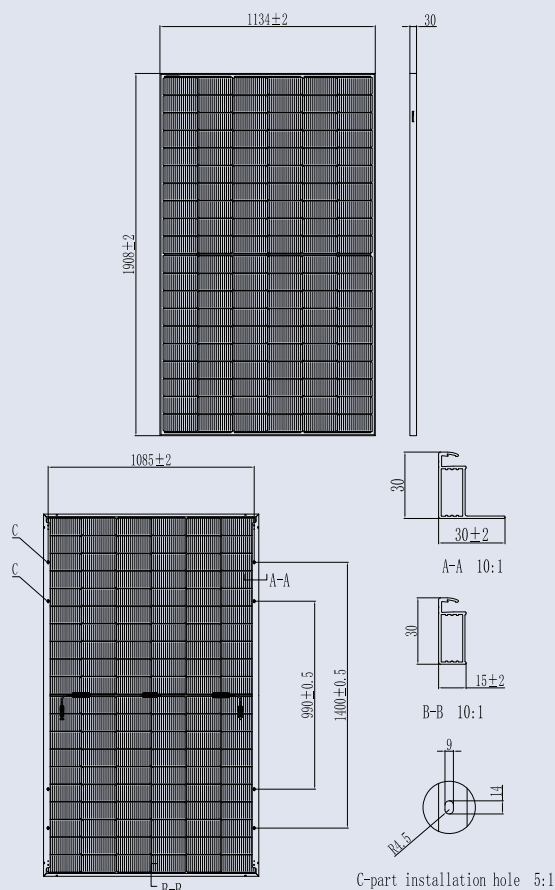


Insurance





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Perlight Partners



More Than 40 Years Manufacturing
Experience Of Baolite Group Since 1982

Electrical Properties (STC*)

Power Output (Wp)	495	500	505
Voltage Mpp-Vmpp (V)	37.00	37.14	37.28
Current Mpp-Impp (A)	13.39	13.48	13.57
Voltage Open Circuit-Voc (V)	44.05	44.22	44.39
Short Circuit Current-Isc (A)	13.90	13.94	13.98
Module Efficiency (%)	22.87	23.10	23.34

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

Electrical Properties (NOCT*)

Power Output (Wp)	374.7	378.5	382.3
Voltage Mpp-Vmpp (V)	35.63	35.77	35.91
Current Mpp-Impp (A)	10.52	10.59	10.66
Voltage Open Circuit-Voc (V)	41.88	42.04	42.20
Short Circuit Current-Isc (A)	10.94	10.97	11.00

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

Electrical Properties (BSTC*)

Power Output (Wp)	546.6	552.2	558.1
Voltage Mpp-Vmpp (V)	37.00	37.14	37.28
Current Mpp-Impp (A)	14.77	14.87	14.97
Voltage Open Circuit-Voc (V)	44.05	44.22	44.39
Short Circuit Current-Isc (A)	15.34	15.38	15.43
Module Efficiency (%)	25.26	25.52	25.79

BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Mechanical Properties

Cells	N Type Monocrystalline Cell
Number of Cells	120 [2× (10×6)]
Module Dimension	1908×1134×30mm(L×W×H)
Weight	27.2Kg±3%
Front Glass	2.0mm High Transmittance, AR Tempered Glass
Rear Glass	Black Grid 2.0mm Semi-tempered Glass
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	37
Piece / Container	888

Operating Properties

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	±3%
Bifaciality	80±5%

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

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