



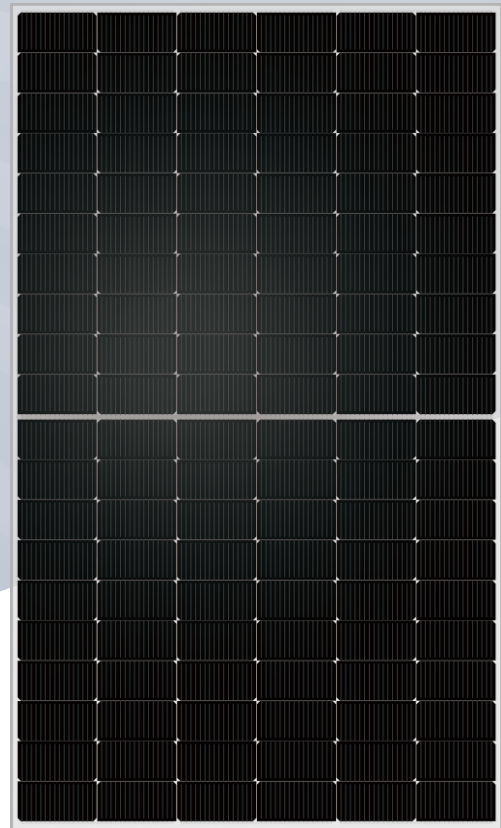
PERLIGHT SOLAR
Powering Possibilities

PLM-490DH8N-120

Silver

N-type TOPCon Bifacial Dual Glass

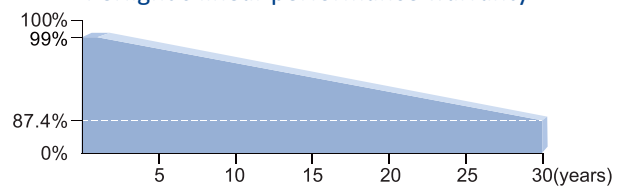
MONOCRYSTALLINE MODULE
Power Range 480W-490W



Insurance



Perlight's linear performance warranty



25.00%

MAX MODULE EFFICIENCY
ACCORDING TO BSTC

15

YEARS LIMITED
PRODUCT WARRANTY

30

YEARS PERFORMANCE
WARRANTY

- 1% First Year Degradation
- 0.4% Annual Degradation
- 87.4% Power In Year 30



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%



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



Enhanced Mechanical Load

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



Bifacial Cell

- Extra energy generated from the backside of the cell depending on albedo



Fire Rating

- Class A



Pfas Free

- Product free from perfluoroalkyl and polyfluoroalkyl substances

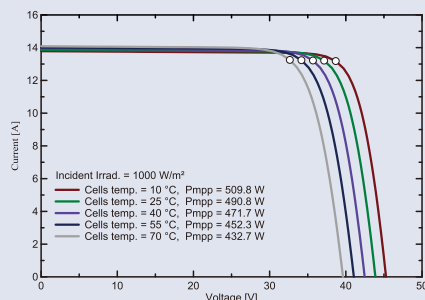
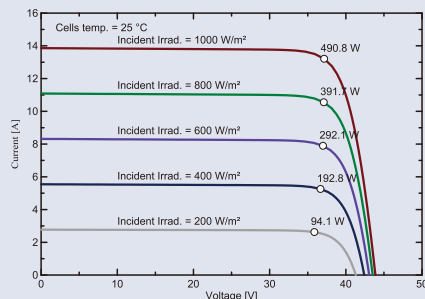
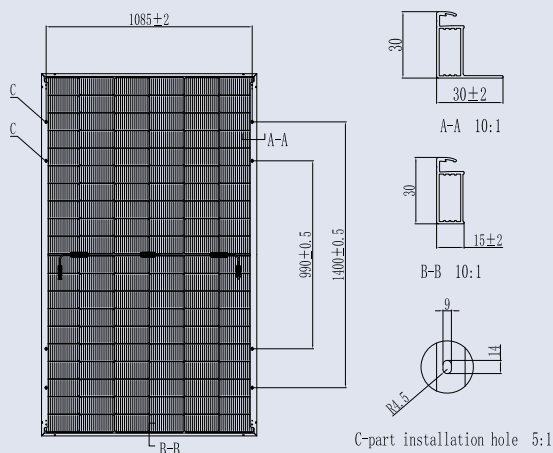
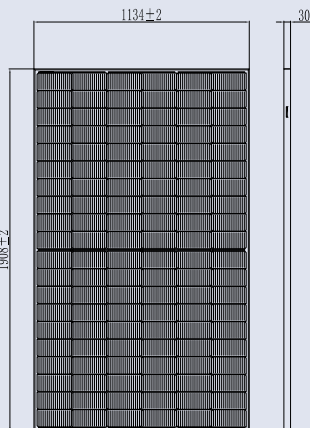


Sustainable Product

- High percentage of recyclable materials



PERLIGHT SOLAR
Powering Possibilities



Perlight Partners



More Than 40 Years Manufacturing
Experience Of Baolite Group Since 1982

Electrical Properties (STC*)

Power Output (Wp)	490
Voltage Mpp-Vmpp (V)	36.86
Current Mpp-Impp (A)	13.30
Voltage Open Circuit-Voc (V)	43.88
Short Circuit Current-Isc (A)	13.86
Module Efficiency (%)	22.65%

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

Electrical Properties (NOCT*)

Power Output (Wp)	370.9
Voltage Mpp-Vmpp (V)	35.49
Current Mpp-Impp (A)	10.45
Voltage Open Circuit-Voc (V)	41.72
Short Circuit Current-Isc (A)	10.91

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

Electrical Properties (BSTC*) Bifacial gain > 10%

Power Output (Wp)	541.1
Voltage Mpp-Vmpp (V)	36.86
Current Mpp-Impp (A)	14.68
Voltage Open Circuit-Voc (V)	43.88
Short Circuit Current-Isc (A)	15.30
Module Efficiency (%)	25.00%

BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.
*Bifaciality=Pmax, rear/Rated Pmax, front

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, 2mm anti-reflective surface tempered solar glass
Rear Glass	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	MC4 compatible

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	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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