



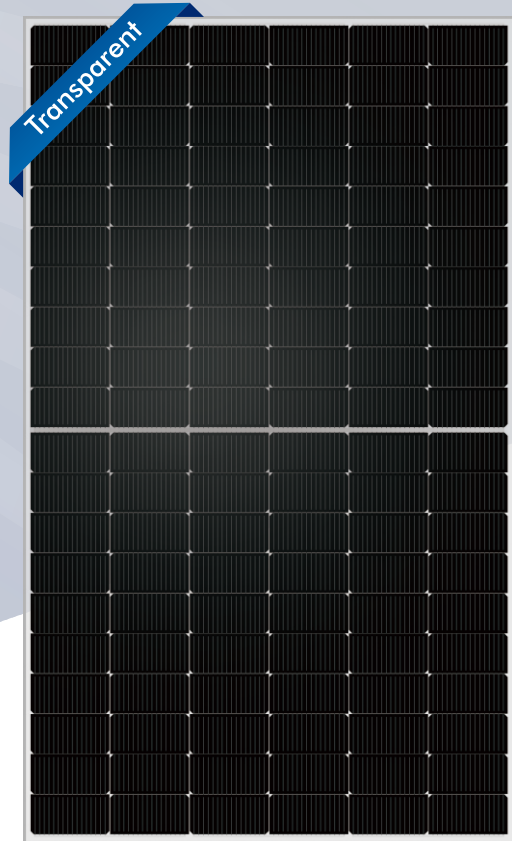
PERLIGHT SOLAR
Powering Possibilities

PLM-490DH8N-120

Silver

N-type TOPCon Bifacial Dual Glass

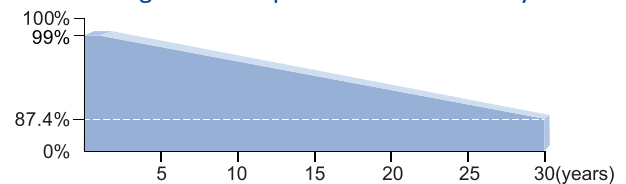
MONOCRYSTALLINE MODULE
Power Range 480W-490W



Insurance



Perlight's linear performance warranty



25.00%

MAX MODULE EFFICIENCY
ACCORDING TO BSTC

15

YEARS LIMITED
PRODUCT WARRANTY

30

YEARS PERFORMANCE
WARRANTY



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



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

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

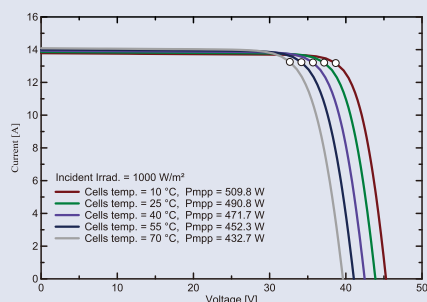
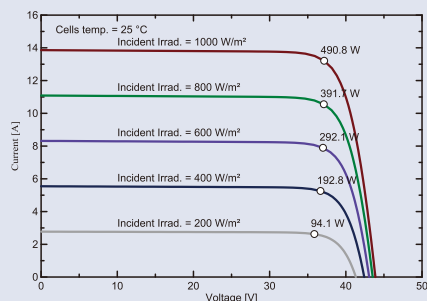
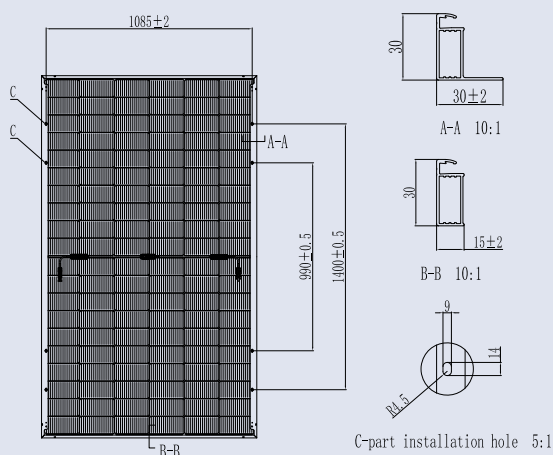
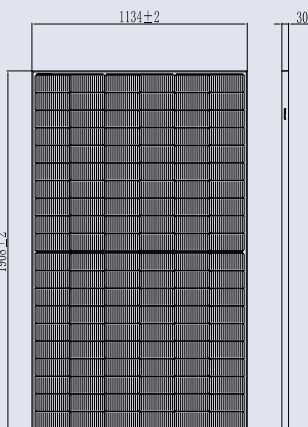


Transparent Dual-glass Design

- Transparent design with aesthetics black appearance and bifacial performance
- Upgraded dual glass, less prone to micro-cracks and scratches on the back during installation
- Excellent fire rating, weather resistance, salt spray, sand dust ammonia performance which is fully applicable in coastal, high temperature, humidity area and harsh environment



PERLIGHT SOLAR
Powering Possibilities



Perlight Partners

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*)

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.

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	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	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