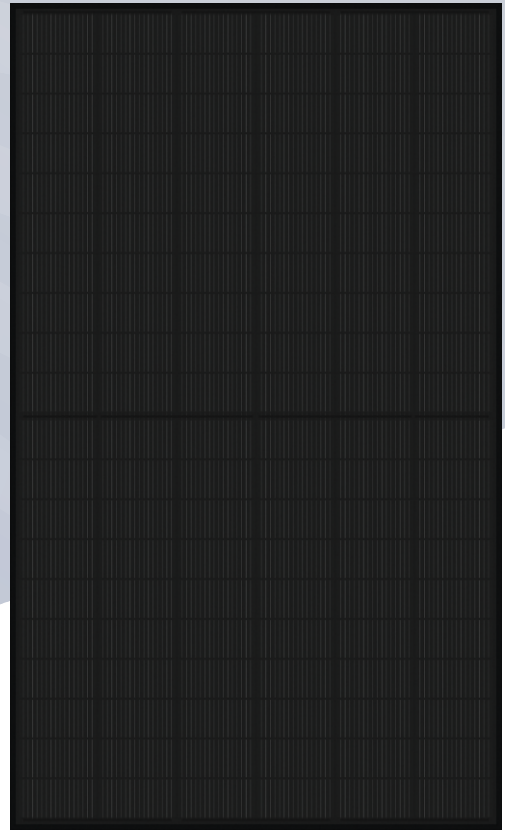




PERLIGHT SOLAR
Powering Possibilities

PLM-480H8NB-120 SERIES

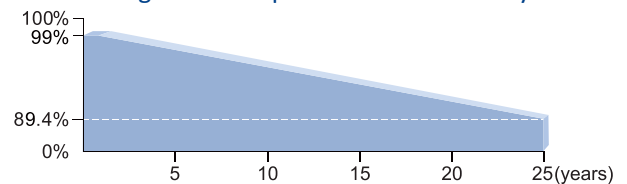
Half-Cell Mono Black Module
Power Range 460W-480W



Insurance



Perlight's linear performance warranty



22.18%

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)

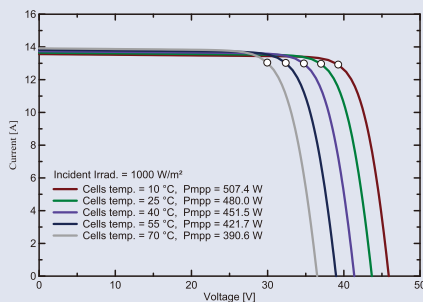
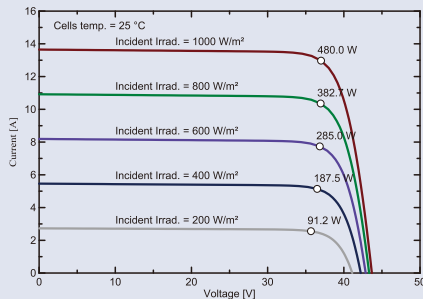
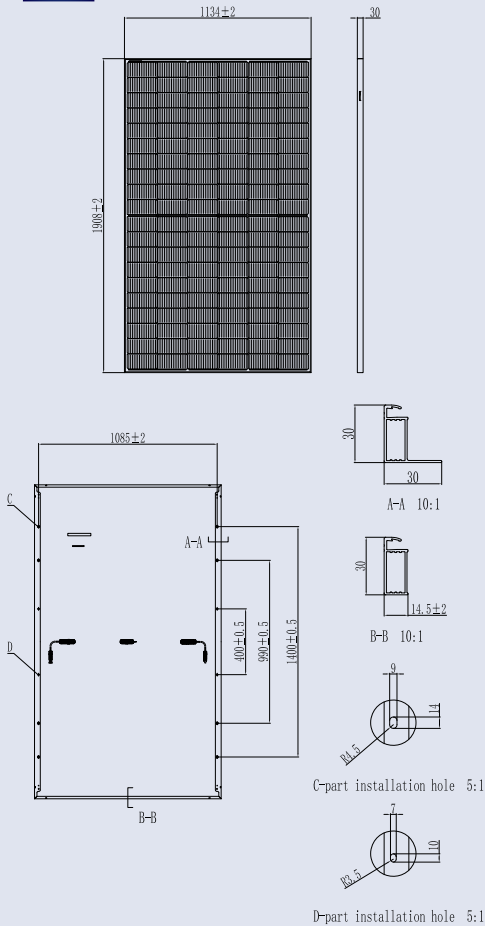


Withstanding Harsh Environment

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



PERLIGHT SOLAR
Powering Possibilities



Perlight Partners

Electrical Properties (STC*)

Power Output (Wp)	460	465	470	475	480
Voltage Mpp-Vmpp (V)	36.45	36.62	36.79	36.96	37.13
Current Mpp-Impp (A)	12.62	12.70	12.78	12.85	12.93
Voltage Open Circuit-Voc (V)	43.00	43.17	43.34	43.51	43.68
Short Circuit Current-Isc (A)	13.45	13.50	13.55	13.60	13.65
Module Efficiency (%)	21.26%	21.50%	21.72%	21.95%	22.18%

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

Electrical Properties (NOCT*)

Power Output (Wp)	348.1	351.9	355.7	359.5	363.3
Voltage Mpp-Vmpp (V)	35.08	35.25	35.41	35.58	35.74
Current Mpp-Impp (A)	9.91	9.97	10.03	10.09	10.15
Voltage Open Circuit-Voc (V)	40.90	41.06	41.22	41.38	41.54
Short Circuit Current-Isc (A)	10.59	10.63	10.67	10.71	10.74

*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 mm², (+):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