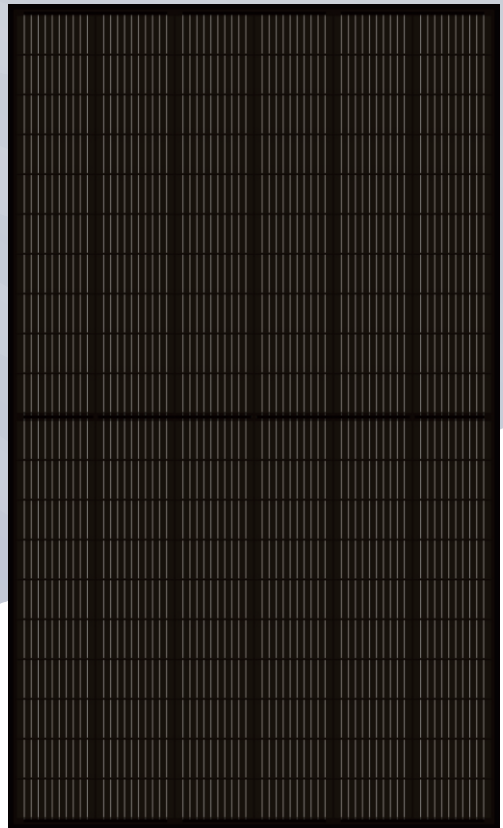




PERLIGHT SOLAR
Powering Possibilities

PLM-455H8MB-120 SERIES

Half-Cell Mono Black Module
Power Range 450W-465W

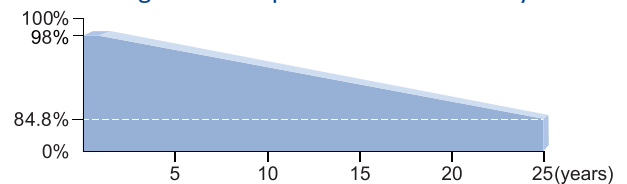


Insurance

PKCC



Perlight's linear performance warranty



21.5%

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)

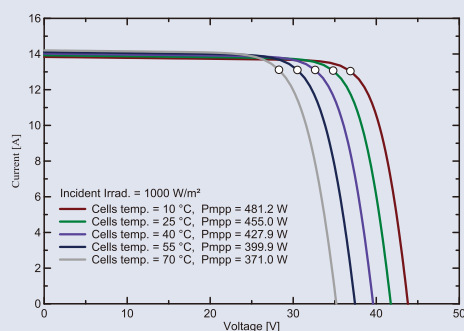
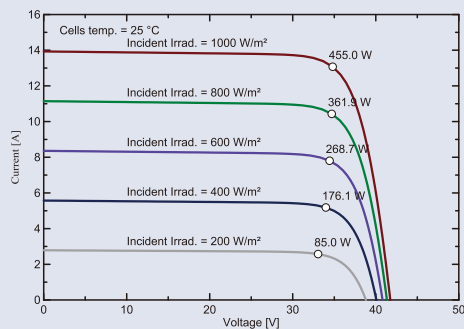
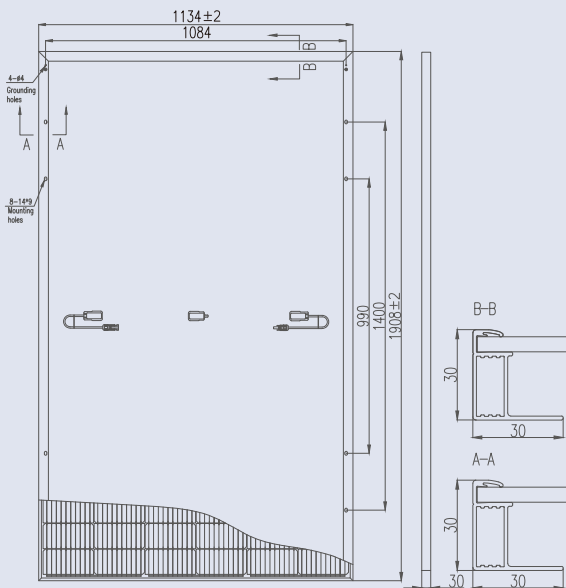


Withstanding Harsh Environment

- 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)	450	455	460	465
Voltage Mpp-Vmpp (V)	33.83	33.99	34.15	34.31
Current Mpp-Impp (A)	13.30	13.39	13.47	13.55
Voltage Open Circuit-Voc (V)	41.21	41.38	41.55	41.72
Short Circuit Current-Isc (A)	13.84	13.89	13.94	13.99
Module Efficiency (%)	20.8%	21.0%	21.3%	21.5%

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

Electrical Properties (NOCT*)

Power Output (Wp)	340.5	344.3	348.1	351.9
Voltage Mpp-Vmpp (V)	32.37	32.59	32.81	33.02
Current Mpp-Impp (A)	10.52	10.56	10.61	10.65
Voltage Open Circuit-Voc (V)	39.11	39.30	39.49	39.68
Short Circuit Current-Isc (A)	10.91	10.95	10.97	11.01

*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 , (+):1100mm/(-):1100mm 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	±5%

Temperature Coefficient

Temperature Coefficient of Pmax	-0.33%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.05%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C