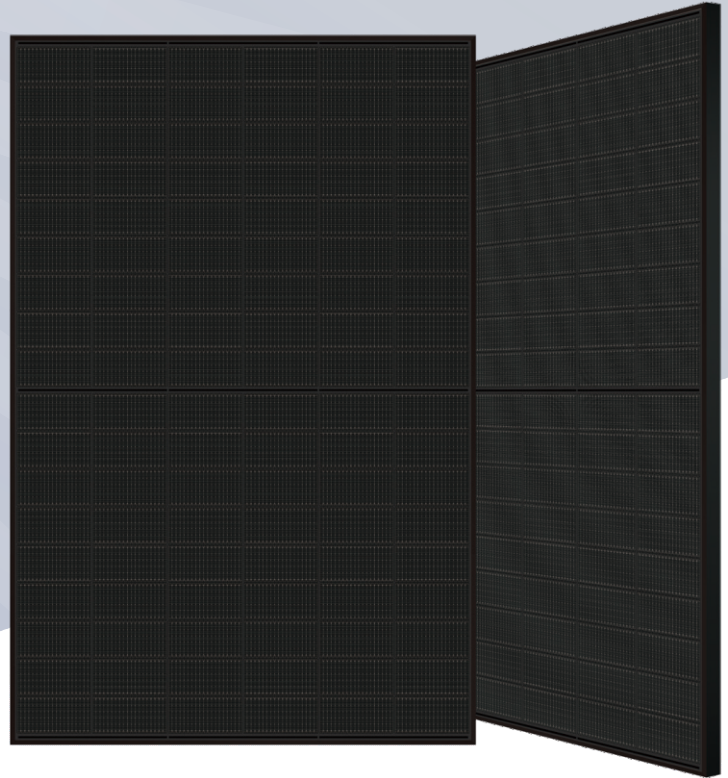




PERLIGHT SOLAR
Powering Possibilities

PLM-500H8NHB-108 SERIES

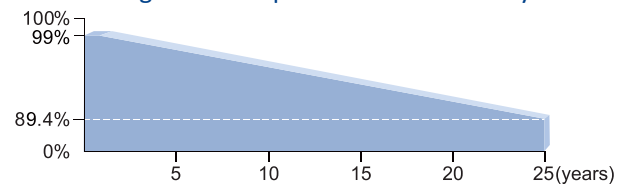
N-Type Half-Cell Module
Power Range 485W-505W



Insurance



Perlight's linear performance warranty



22.72%

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)

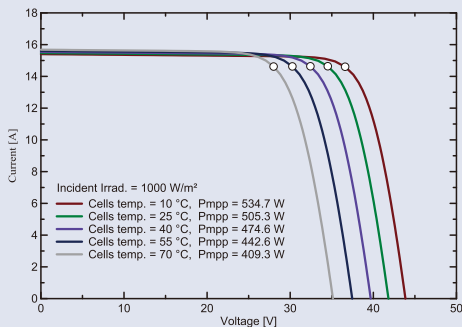
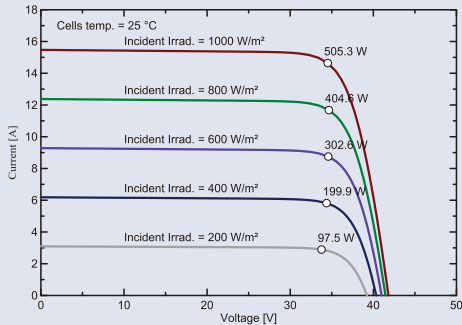
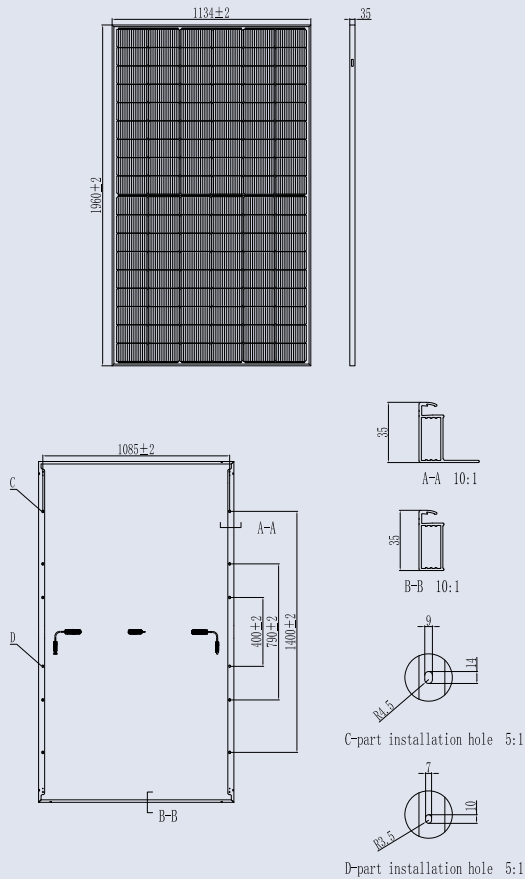


Withstanding Harsh Environment

- 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)	485	490	495	500	505
Voltage Mpp-Vmpp (V)	33.97	34.1	34.23	34.36	34.49
Current Mpp-Impp (A)	14.29	14.38	14.47	14.56	14.65
Voltage Open Circuit-Voc (V)	41.22	41.37	41.52	41.67	41.82
Short Circuit Current-Isc (A)	15.27	15.32	15.37	15.42	15.47
Module Efficiency (%)	21.82	22.04	22.27	22.50	22.72

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

Electrical Properties (NOCT*)

Power Output (Wp)	368	372	376	380	384
Voltage Mpp-Vmpp (V)	32.33	32.44	32.55	32.66	32.77
Current Mpp-Impp (A)	11.44	11.51	11.58	11.65	11.72
Voltage Open Circuit-Voc (V)	39.35	39.49	39.63	39.77	39.91
Short Circuit Current-Isc (A)	12.22	12.26	12.3	12.34	12.38

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

Mechanical Properties

Cell Size	N Type Monocrystalline Cell
Number of Cells	108 [2× (9×6)]
Module Dimension	1960×1134×35mm(L×W×H)
Weight	22Kg
Front Glass	High Tempered 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	31
Piece / Container	682

Operating Properties

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
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