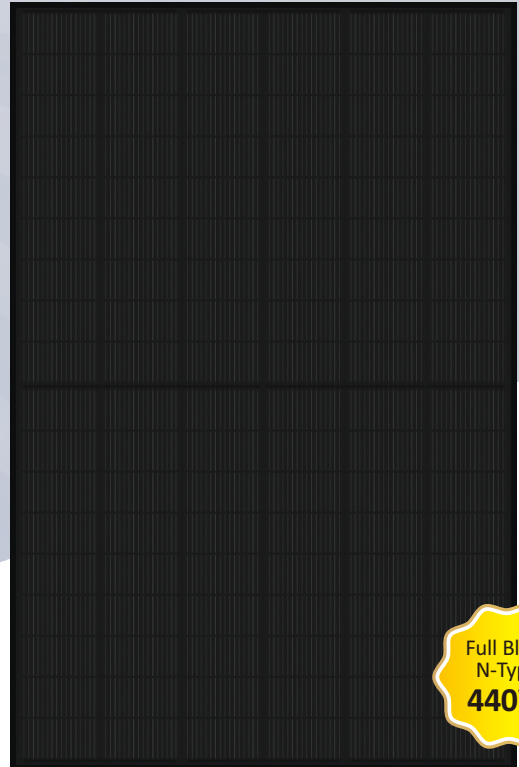




PERLIGHT SOLAR
Powering Possibilities

PLM-440H8NB-108 SERIES

Half-Cell N-Type Mono Black Module
Power Range 435W-440W



Full Black
N-Type
440W

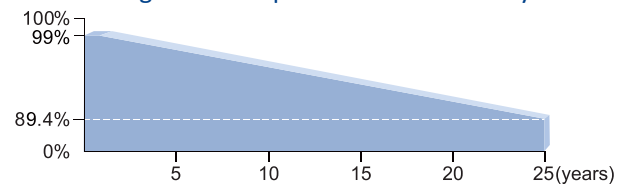


Insurance

PKCC



Perlight's linear performance warranty



22.53%

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



Zero LID (Light Induced Degradation)

- N-type solar cell has no 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)

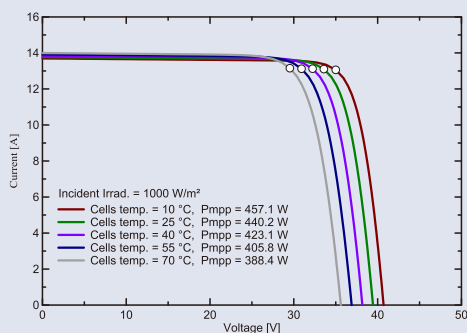
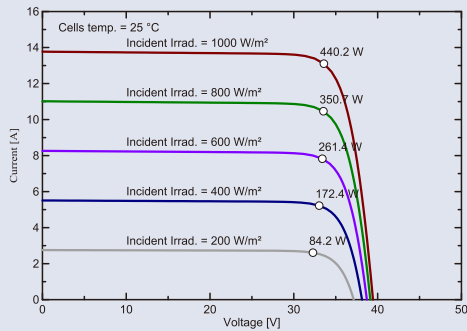
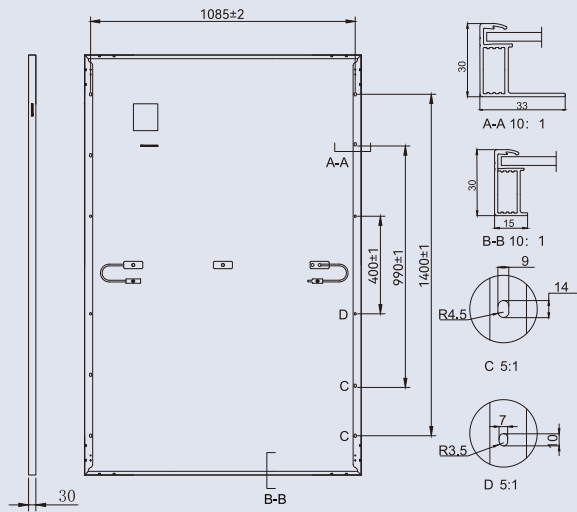


Withstanding Harsh Environment

- 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)	435	440
Voltage Mpp-Vmpp (V)	33.43	33.60
Current Mpp-Impp (A)	13.01	13.10
Voltage Open Circuit-Voc (V)	39.30	39.45
Short Circuit Current-Isc (A)	13.72	13.77
Module Efficiency (%)	22.28	22.53

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

Electrical Properties (NOCT*)

Power Output (Wp)	327.8	331.8
Voltage Mpp-Vmpp (V)	31.14	31.30
Current Mpp-Impp (A)	10.52	10.60
Voltage Open Circuit-Voc (V)	37.33	37.47
Short Circuit Current-Isc (A)	11.06	11.10

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

Mechanical Properties

Cell Size	182mm×91mm
Number of Cells	108 [2× (9×6)]
Module Dimension	1722×1134×30mm(L×W×H)
Weight	20.5Kg
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 , (+):1200mm/(-):1200mm or Customized Length
Connector	Stäubli MC4 EVO 2A

Packaging Configuration

Packing Type	40'HQ
Piece / Pallet	36
Piece / Container	936

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