

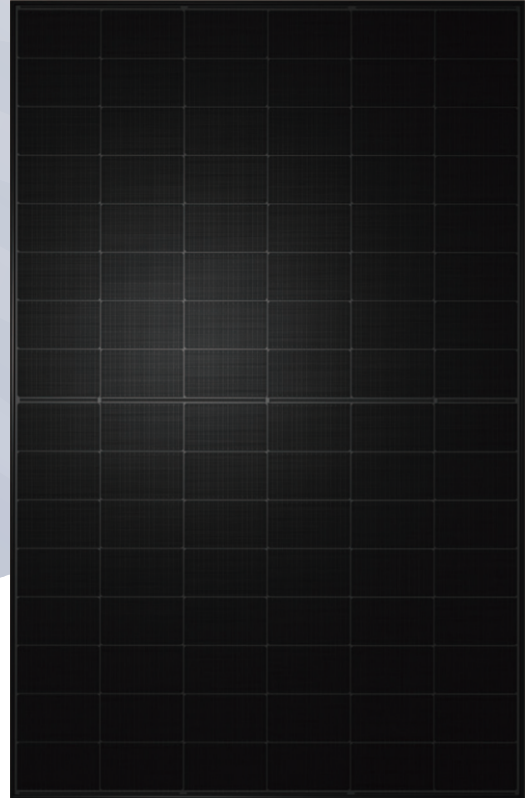


PERLIGHT SOLAR
Powering Possibilities

PLM-445DH8NHB-96 SERIES

Double Glass

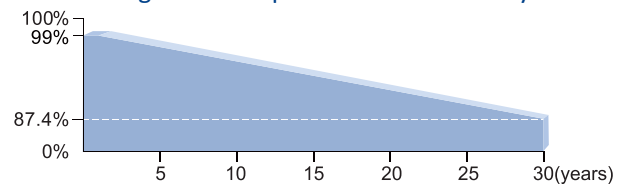
Half-Cell Mono Black Module
Power Range 430W-450W



Insurance



Perlight's linear performance warranty



22.5%

MAX MODULE EFFICIENCY
AFTER INSTALLED

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



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)

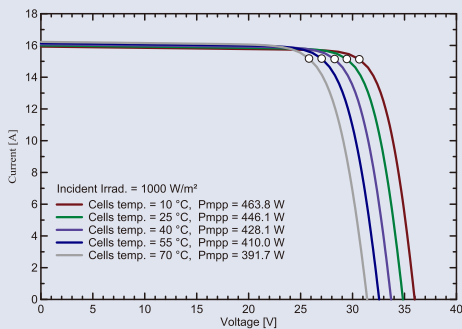
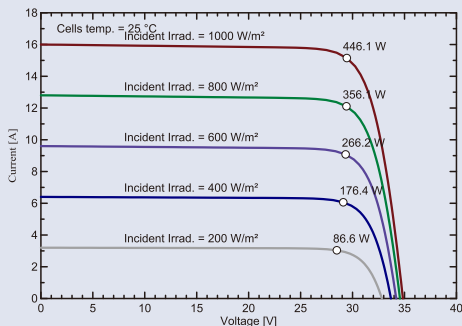
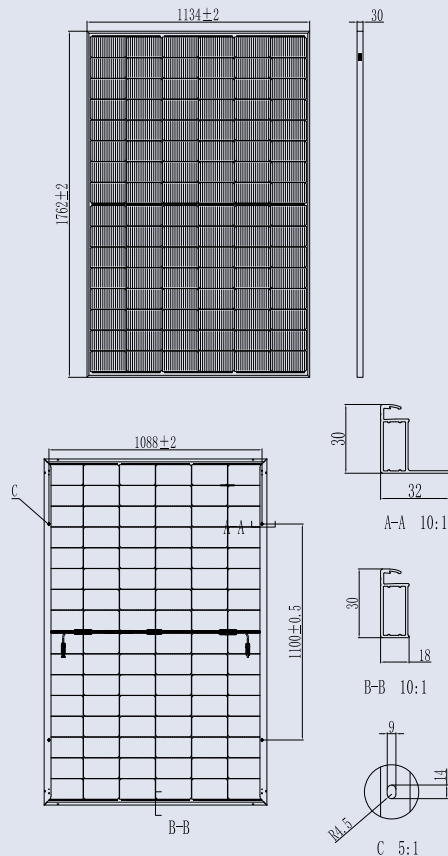


Withstanding Harsh Environment

- 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)	430	435	440	445	450
Voltage Mpp-Vmpp (V)	29.36	29.54	29.72	29.90	30.08
Current Mpp-Impp (A)	14.64	14.73	14.81	14.89	14.97
Voltage Open Circuit-Voc (V)	34.31	34.49	34.67	34.85	35.03
Short Circuit Current-Isc (A)	15.85	15.90	15.95	16.00	16.05
Module Efficiency (%)	21.5	21.8	22.0	22.3	22.5

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

Electrical Properties (NOCT*)

Power Output (Wp)	323	327	331	335	338
Voltage Mpp-Vmpp (V)	27.31	27.51	27.68	27.88	27.96
Current Mpp-Impp (A)	11.83	11.89	11.96	12.02	12.09
Voltage Open Circuit-Voc (V)	32.59	32.77	32.94	33.11	33.28
Short Circuit Current-Isc (A)	12.80	12.84	12.88	12.92	12.96

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

Mechanical Properties

Cell	N Type Monocrystalline Cell
Number of Cells	96 [6× (16)]
Module Dimension	1762×1134×30mm(L×W×H)
Weight	23.7Kg
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 mm², (+):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	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