

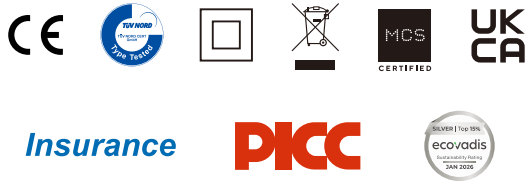
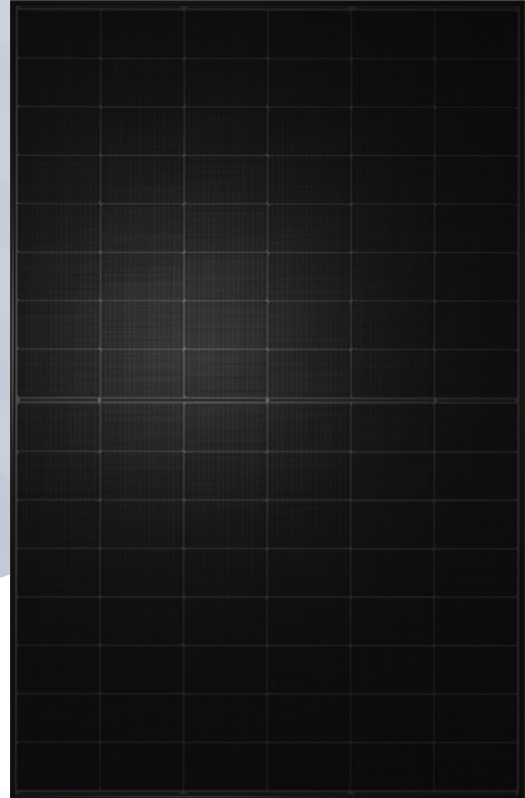


PERLIGHT SOLAR
Powering Possibilities

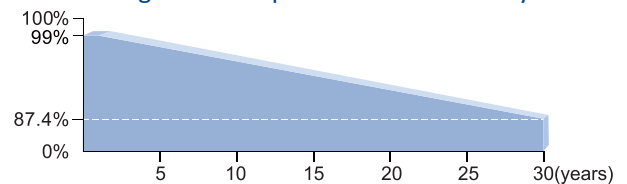
PLM-455DH8NHB-96 SERIES

Double Glass

Half-Cell Mono Black Module
Power Range 435W-455W



Perlight's linear performance warranty



25.1%

MAX MODULE EFFICIENCY
AFTER INSTALLED
UNDER BSTC

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)

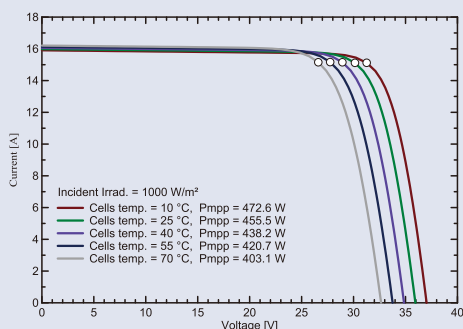
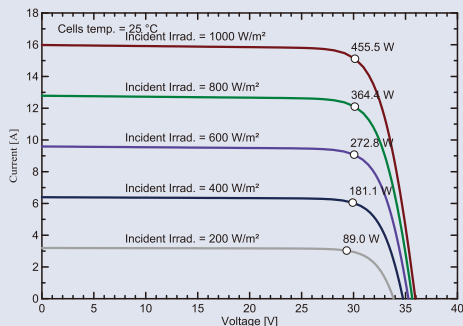
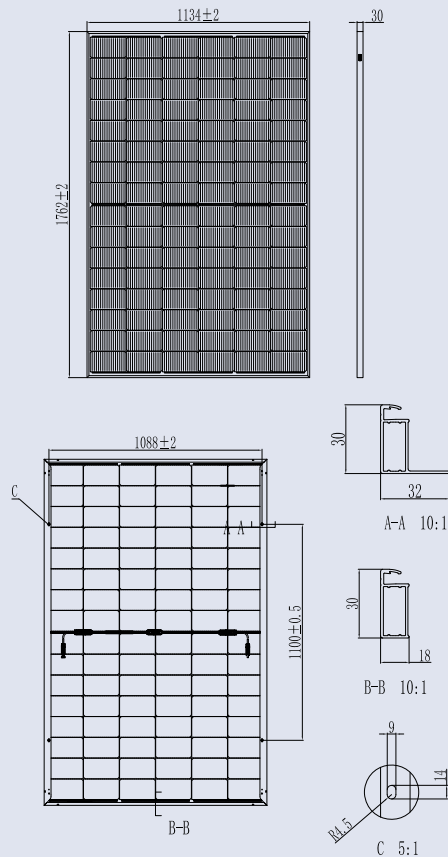


Withstanding Harsh Environment

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



PERLIGHT SOLAR
Powering Possibilities



Perlight Partners



More Than 40 Years Manufacturing
Experience Of Baolite Group Since 1982

Electrical Properties (STC*)

Power Output (Wp)	435	440	445	450	455
Voltage Mpp-Vmpp (V)	29.42	29.67	29.93	30.19	30.44
Current Mpp-Impp (A)	14.79	14.83	14.87	14.91	14.95
Voltage Open Circuit-Voc (V)	35.15	35.35	35.55	35.75	35.95
Short Circuit Current-Isc (A)	15.86	15.89	15.92	15.95	15.98
Module Efficiency (%)	21.8	22.0	22.3	22.5	22.7

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

Electrical Properties (NOCT*)

Power Output (Wp)	327	331	335	338	342
Voltage Mpp-Vmpp (V)	27.51	27.68	27.88	27.96	28.18
Current Mpp-Impp (A)	11.89	11.96	12.02	12.09	12.14
Voltage Open Circuit-Voc (V)	32.77	32.94	33.11	33.28	33.45
Short Circuit Current-Isc (A)	12.84	12.88	12.92	12.96	13.00

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

Electrical Properties (BSTC*)

Power Output (Wp)	480.4	485.7	491.5	496.9	502.3
Voltage Mpp-Vmpp (V)	29.42	29.67	29.93	30.19	30.44
Current Mpp-Impp (A)	16.33	16.37	16.42	16.46	16.50
Voltage Open Circuit-Voc (V)	35.15	35.35	35.55	35.75	35.95
Short Circuit Current-Isc (A)	17.51	17.54	17.57	17.61	17.64
Module Efficiency (%)	24.0	24.3	24.5	24.8	25.1

BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

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 mm ² , (+):1200mm/(-):1200mm or Customized Length
Connector	Stäubli MC4 EVO 2A

Packaging Configuration

Packing Type	40'HQ
Piece / Pallet	37
Piece / Container	962

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 P _{max}	-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

PERLIGHT SOLAR CO.,LTD.

Add: Oufeng Rd, Muyu, Zeguo Town, Wenling, Zhejiang, China | www.perlight.com
+86-576-86477290 | enquiry@perlight.com | Version:PLM_EN_2026V5