



PERLIGHT SOLAR
Powering Possibilities

PERLIGHT SOLAR CO.,LTD.

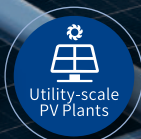
www.perlight.com

**N-type Half-cell
Monofacial Module**

PLM-570H8N-144 SERIES



Commercial
Rooftop



Utility-scale
PV Plants



12
YEAR
Materials
Warranty



25
YEAR
Power
Warranty

High Power Output
Low LCOE

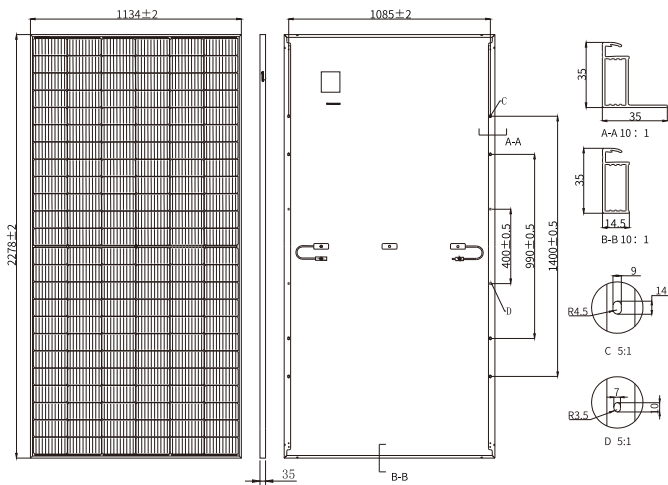


Maximum Power
590W+





Drawings (Unit: mm)



Electrical Characteristics (STC)

Maximum Power: Pmax [W]	570	575	580	585	590
Open Circuit Voltage: Voc [V]	52.40	52.60	52.80	53.00	53.20
Short Circuit Current: Isc [A]	13.42	13.46	13.50	13.54	13.58
Voltage at Maximum Power: Vmp [V]	44.63	44.83	45.03	45.23	45.43
Current at Maximum Power: Imp [A]	12.78	12.83	12.90	12.94	13.00
Module Efficiency: η [%]	22.1	22.3	22.5	22.6	22.8

Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	431.4	435.2	438.9	442.7	446.5
Open Circuit Voltage: Voc [V]	49.80	50.03	50.22	50.41	50.60
Short Circuit Current: Isc [A]	10.56	10.59	10.63	10.66	10.69
Voltage at Maximum Power: Vmp [V]	42.87	43.15	43.34	43.54	43.73
Current at Maximum Power: Imp [A]	10.06	10.08	10.12	10.16	10.21

*STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: $\pm 3\%$
*NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass1.5. Wind Speed 1m/s

Temperature Parameters

Temperature Coefficient (Pmax)	-0.30%/°C
Temperature Coefficient (Voc)	-0.25%/°C
Temperature Coefficient (Isc)	+0.046%/°C
NMOT	45 $\pm$ 2°C

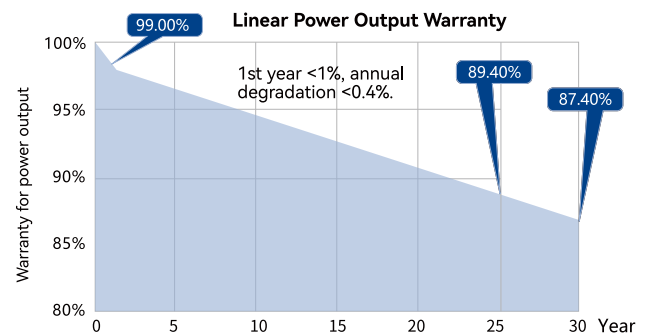
Maximum Ratings

Operational Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Power Output Tolerance	$\pm 3\%$

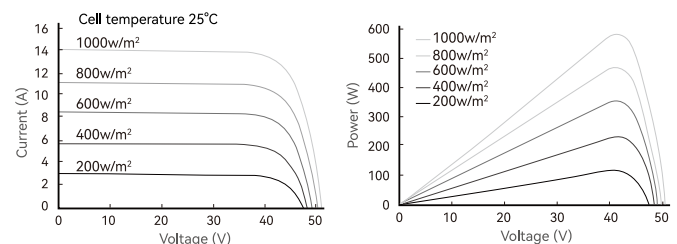
Mechanical Parameters

Cells	N Type Monocrystalline Cell
Cell Orientation	144[6X24]
Dimension	2278X1134x35mm
Weight	27.8kg
Front Glass	3.2mm high transmittance, AR coated tempered glass
Backsheet	White
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm ²
Cable Length	+400mm,-200mm or ± 1400 mm,length can be customized
Wind / Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet, 620pcs per 40'HC

Warranty



I-V Curve



Certifications

Quality Management System and Product Certification

ISO 9001:2015 / quality management system
ISO 14001:2015 / environmental management system
ISO 45001:2018 / occupation health safety management system
IEC 61215/61730



More Than 40 Years Manufacturing
Experience Of Baolite Group Since 1982

