



**PERLIGHT SOLAR**  
*Powering Possibilities*

**PERLIGHT SOLAR CO.,LTD.**

[www.perlight.com](http://www.perlight.com)

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

# PLM-570H8N-144 SERIES



Commercial  
Rooftop



Utility-scale  
PV Plants



**30**  
YEAR  
Materials  
Warranty



**30**  
YEAR  
Power  
Warranty

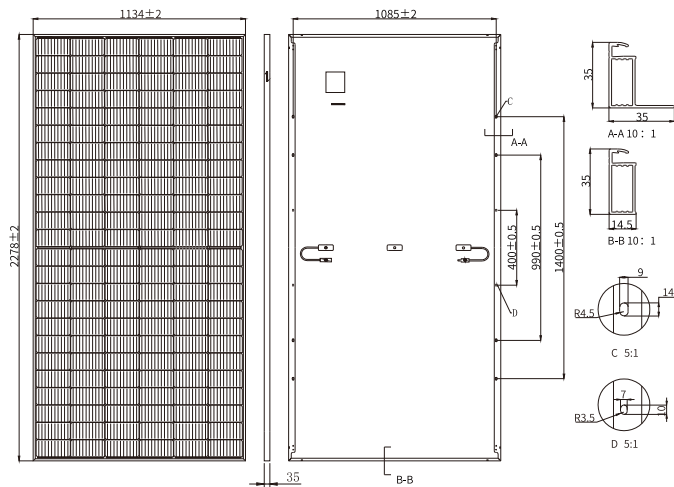
High Power Output  
Low LCOE



Maximum Power  
590W+



**DRAWINGS (Unit: mm)**



**MECHANICAL PARAMETERS**

Cells	N Type Monocrystalline Cell
Cell Orientation	144[6X24]
Dimension	2278 X 1134 X 35mm
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 <sup>2</sup>
Cable Length	+400mm, -200mm or ±1400mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet, 620pcs per 40'HC

**ELECTRICAL CHARACTERISTICS (STC)**

Module Type: PLM-570H8N-144 SERIES					
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/m<sup>2</sup>, Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: ±3%  
\* NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

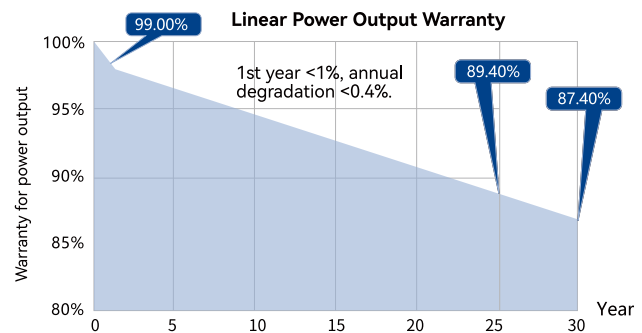
**TEMPERATURE PARAMETERS**

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

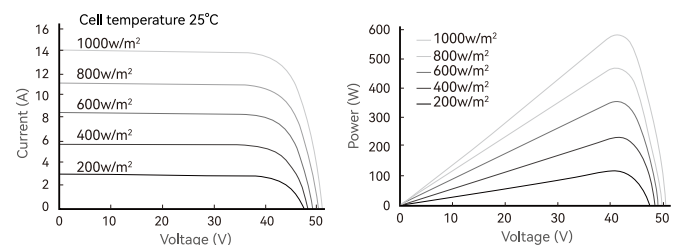
**MAXIMUM RATINGS**

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Power Output Tolerance	0~+5W

**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

