



PERLIGHT SOLAR
Powering Possibilities

PERLIGHT SOLAR CO.,LTD.
www.perlight.com

**N-type Half-cell
Bifacial Module**

PLM-620DH8NH-132 SERIES



Bifacial Cell

- Extra energy generated from the backside of the cell depending on albedo



Fire Rating

- Class A



Pfas Free

- Product free from perfluoroalkyl and polyfluoroalkyl substances



Sustainable Product

- High percentage of recyclable materials

High Power Output
Low LCOE



Maximum Power
620W+



15

YEAR
Materials
Warranty

30

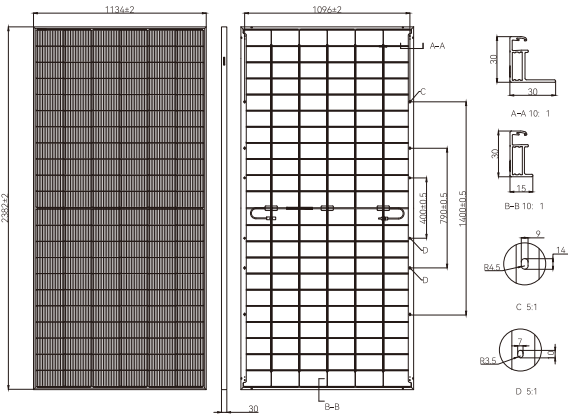
YEAR
Power
Warranty

- 1% First year degradation
- 0.4% Annual degradation
- 87.4% Power in year 30





Drawings (Unit: mm)



Electrical Characteristics (STC)

Maximum Power: Pmax [W]	610	615	620
Open Circuit Voltage: Voc [V]	47.90	48.10	48.30
Short Circuit Current: Isc [A]	15.85	15.90	15.95
Voltage at Maximum Power: Vmp [V]	41.15	41.35	41.55
Current at Maximum Power: Imp [A]	14.83	14.88	14.93
Module Efficiency: η [%]	22.60	22.80	23.00

Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	459	462	466
Open Circuit Voltage: Voc [V]	45.51	45.70	45.89
Short Circuit Current: Isc [A]	12.80	12.84	12.88
Voltage at Maximum Power: Vmp [V]	38.35	38.47	38.68
Current at Maximum Power: Imp [A]	11.97	12.01	12.05

*STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5, Measuring Tolerance: $\pm 3\%$
*NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

Electrical Properties (BSC*) Bifacial gain > 10%

Power Output [Wp]	672	679	684
Voltage Mpp-Vmpp [V]	41.15	41.35	41.55
Current Mpp-Imp [A]	16.37	16.42	16.47
Voltage Open Circuit-Voc [V]	47.90	48.10	48.30
Short Circuit Current-Isc [A]	17.50	17.55	17.60
Module Efficiency [%]	24.80	25.10	25.30

*BSC: Front side irradiance 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C
*Bifaciality=Pmax, rear/Rated Pmax, front

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

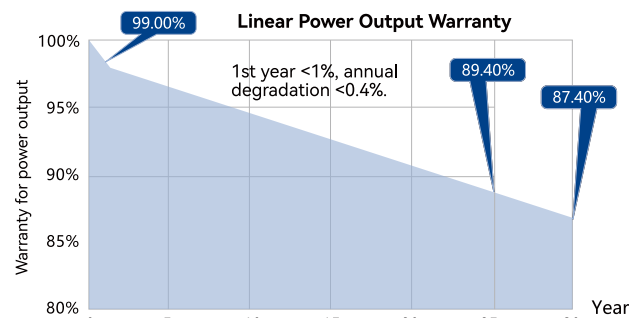
Maximum Ratings

Operational Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	$\pm 3\%$
Maximum Bifaciality	80 $\pm$ 5%

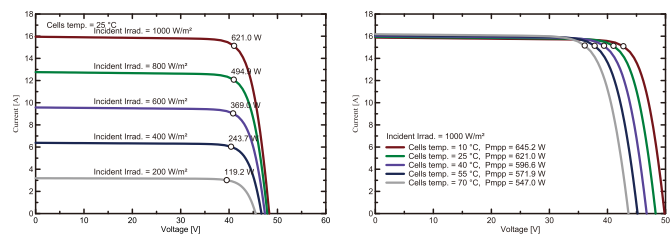
Mechanical Parameters

Cells	N Type Monocrystalline Cell
Cell Orientation	132[6X22]
Dimension	2382 $\pm$ 2X1134 $\pm$ 2x30mm
Weight	32.5kg
Front Glass	2.0mm high transmittance, 2mm anti-reflective surface tempered solar glass
Rear Glass	2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm ²
Cable Length	+400mm,-200mm,length can be customized
Wind / Snow Load	2400Pa/5400Pa
Packaging	36pcs per pallet, 720pcs 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

