

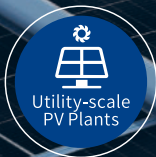


PERLIGHT SOLAR
Powering Possibilities

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

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

PLM-630DH8N-156 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
640W+



15
YEAR
Materials
Warranty

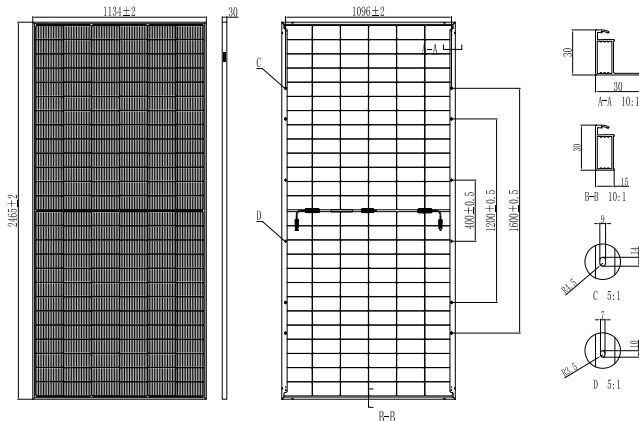
30
YEAR
Power
Warranty

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





Drawings (Unit: mm)



Electrical Characteristics (STC)

Maximum Power: Pmax [W]	625	630	635	640
Open Circuit Voltage: Voc [V]	56.80	57.00	57.20	57.40
Short Circuit Current: Isc [A]	13.74	13.78	13.82	13.86
Voltage at Maximum Power: Vmp [V]	47.71	47.88	48.05	48.22
Current at Maximum Power: Imp [A]	13.10	13.16	13.22	13.28
Module Efficiency: η [%]	22.4	22.5	22.7	22.9

Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	470.0	473.8	477.5	481.3
Open Circuit Voltage: Voc [V]	53.96	54.15	54.34	54.53
Short Circuit Current: Isc [A]	11.09	11.13	11.16	11.19
Voltage at Maximum Power: Vmp [V]	44.43	44.62	44.76	44.90
Current at Maximum Power: Imp [A]	10.58	10.62	10.67	10.72

*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 (BSTC*) Bifacial gain > 10%

Power Output [Wp]	690	695	701	706
Voltage Mpp-Vmpp [V]	47.71	47.88	48.05	48.22
Current Mpp-Imp [A]	14.45	14.52	14.58	14.65
Voltage Open Circuit-Voc [V]	56.80	57.00	57.20	57.40
Short Circuit Current-Isc [A]	15.16	15.21	15.25	15.29
Module Efficiency [%]	24.6	24.8	25.0	25.2

*BSTC: 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

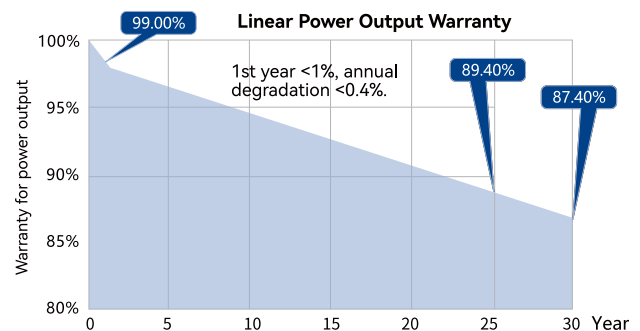
Maximum Ratings

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%

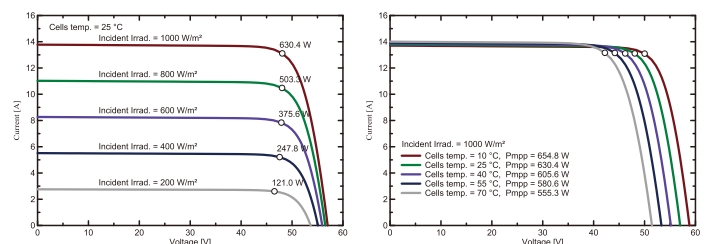
Mechanical Parameters

Cells	N Type Monocrystalline Cell
Cell Orientation	156[6 $\times$ 26]
Dimension	2465 $\pm$ 2 $\times$ 1134 $\pm$ 2 $\times$ 30mm
Weight	33.8kg
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, 576pcs 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

