



PERLIGHT SOLAR
Powering Possibilities

PLM-550H8M-144 SERIES

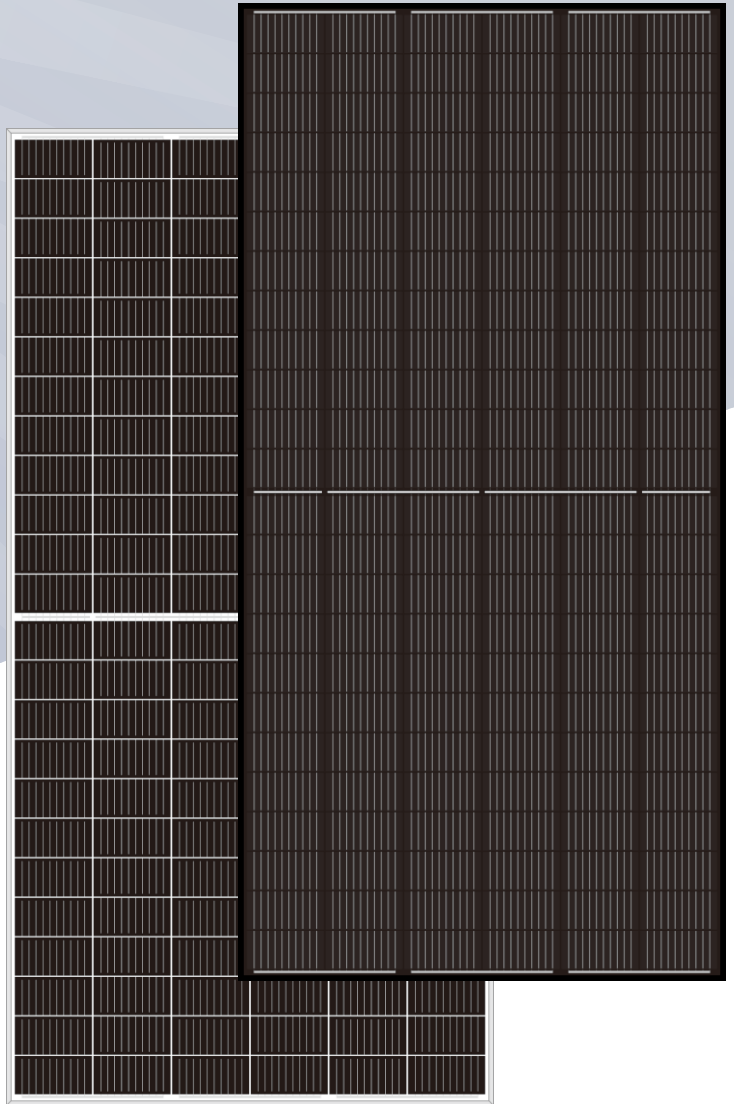
Monocrystalline Silicon Half Cell Solar Module
Power range 530W-550W

Plus extra 5W power



Insurance

PKCC



21.31%

MAX MODULE EFFICIENCY
AFTER INSTALLED

12

YEARS LIMITED
PRODUCT WARRANTY

25

YEARS PERFORMANCE
WARRANTY

PERLIGHT SOLAR

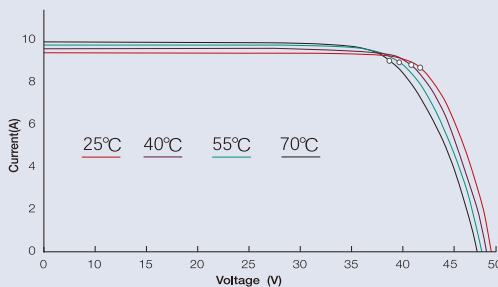
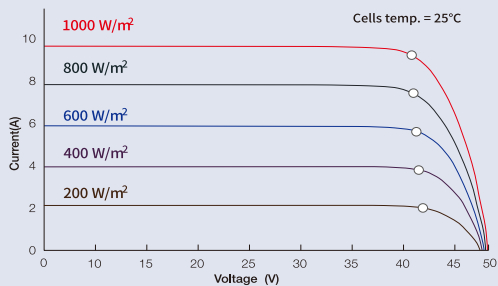
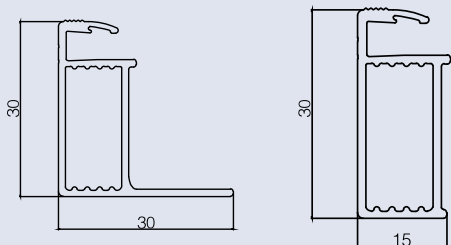
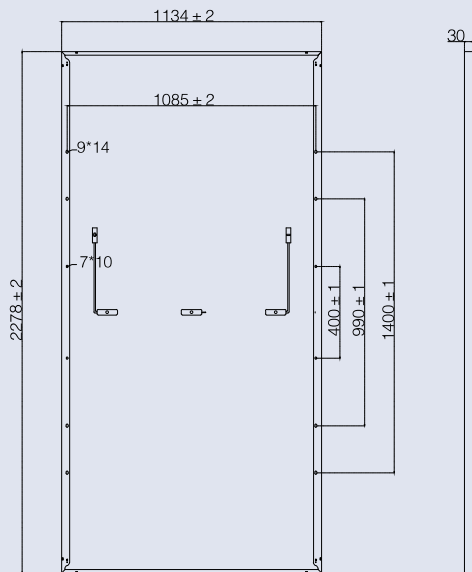
Founded in 2006, Perlight Solar is growing to be the world leading residential smart solar PV products manufacturer & service provider.

Based on more than 30 years manufacturing experience of Baolite Group, along with the implementation of MES & ERP system, Perlight Solar have realized lean and flexible manufacturing of solar cell & solar module.

With corporate values "Customer First, Talent Excellence, Pragmatic Innovation, Integrity & Win-Win", Perlight Solar will continue to provide excellent smart energy products & service to global families and vision to be the leading brand in global distributed smart energy.



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Perlight Partners

Electrical Characteristics (STC*)

Maximum Power at STC (Pmp)	530	535	540	545	550
Maximum Power Voltage (Vmp)	41.31	41.51	41.67	41.83	41.99
Maximum Power Current (Imp)	12.83	12.89	12.96	13.03	13.10
Open Circuit Voltage (Voc)	49.16	49.36	49.52	49.68	49.84
Short Circuit Current (Isc)	13.72	13.77	13.84	13.91	13.96
Module Efficiency at STC (nm)	20.6%	20.7%	20.9%	21.1%	21.3%

STC: 1000W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum.
Power tolerance: ±5%

Electrical Characteristics (NMOT*)

Maximum Power at STC (Pmp)	390	393	397	401	404
Maximum Power Voltage (Vmp)	38.01	38.12	38.28	38.48	38.55
Maximum Power Current (Imp)	10.26	10.31	10.37	10.42	10.48
Open Circuit Voltage (Voc)	45.47	45.66	45.81	45.95	46.10
Short Circuit Current (Isc)	11.06	10.10	11.16	11.21	11.27

NOCT: 800W/m² irradiance, 20°C environment temperature, 1m/s wind speed.

Mechanical Specifications

Solar Cells	PERC Mono crystalline 182×91mm
External Dimensions	2278×1134×30mm(L×W×H)
Front Glass	3.2mm AR coating tempered glass, low iron
Weight	27.4Kg
Output Cable	4.0 mm ² , cable length 1100mm
Connector	MC4 Compatible
Junction Box	IP 68, 3 diodes
Frame	Anodized aluminium alloy

Temperature Characteristics

Isc Temperature Coefficient	+0.048%/°C
Voc Temperature Coefficient	-0.28%/°C
Pmax Temperature Coefficient	-0.35%/°C
Nominal Operating Cell Temperature (NOCT)	43±2°C

Operating Characteristics

Max. system voltage	DC1500V
Limiting reverse current	25A
Operating temperature range	-40°C~85°C
Max. static load front (e.g., snow)	5400Pa
Max. static load back (e.g., wind)	2400Pa
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

Package

Container	40'HQ
Pieces Per Big Pallet	36
Big Pallets Per Container	20
Pieces Per Container	720



More Than 40 Years Manufacturing
Experience Of Baolite Group Since 1982