

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.









Performance

Good performance even under low light conditions



Reliability

Strict selection of raw materials and strict quality control ensure reliability



Smart

Optional smart-ready design. Easy upgrade into smart solar module solution

MONOCRYSTALLINE 60-CELL SERIES

ELECTRICAL PERFORMANCE									
Module type		PLM-330MB-60 BLACK PLUS SERIES							
Power output	P _{max}	Wp	300	305	310	315	320	325	330
Voltage at Pmax	V_{mpp}	٧	33.37	33.54	33.67	33.87	33.96	34.18	34.32
Current at Pmax	Impp	Α	8.99	9.10	9.22	9.30	9.42	9.51	9.63
Open-circuit voltage	Voc	٧	40.58	40.76	40.85	40.96	41.12	41.33	41.52
Short-circuit current	Isc	Α	9.42	9.60	9.75	9.84	9.98	10.11	10.23
Module Efficiency	Eff.	%	17.98	18.28	18.58	18.88	19.18	19.48	19.78

STC: $1000W/m^2$ irradiance, $25^{\circ}C$ cell temperature, AM 1.5g spectrum according to EN 60904-3. Power measurement uncertainty is within +/- 3%

THERMAL CHARACTERISTICS			
Nominal operating cell temperature	NOCT	°C	45±2
Temperature coefficient of Pmax	ע	%/°C	-0.40
Temperature coefficient of Voc	Bvoc	%/°C	-0.30
Temperature coefficient of lsc	C lsc	%/°C	0.06

OPERATING CONDITIONS		
Max. system voltage	1000V _{DC}	
Limiting reverse current	15A	
Operating temperature range	-40°C to 85°C	
Max. static load front (e.g., snow)	5400Pa	
Max. static load back (e.g., wind)	2400Pa	

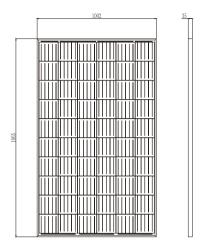
MECHANICAL CHARACTERISTICS	
Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	black
Cell (quantity / material / dimensions)	60 / monocrystalline silicon /158.75×158.75mm
Frame (material / color)	anodized aluminum alloy / black
Junction box (protection degree)	≥ IP67
Cables & Plug connectors	900mm / 4mm² & MC4 compatible / IP67
Module Dimensions (L / W / H)	1665mm x 1002mm x 35mm
Module Weight	18.1kg

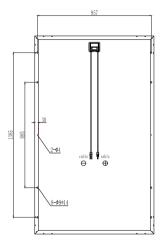
PACKING DETAILS		
Container	20'GP	40'HQ
Pieces per pallet	54	66
Pallets per container	6	14
Pieces per container	324	924





Module Diagram:





Electrical Curves:

