

PLM-285M-66 SERIES

Monocrystalline Silicon Solar Module



PERLIGHT SOLAR

Founded in 2006, Perlight is a Global Solar Energy provider with a presence in more than 35 countries around the world. More than 1.5GW of Perlight modules have been used in residential, commercial and off-grid systems around the world.

Perlight's success has been built on proven product performance and reliability, state of the art technology and long term partnerships with key customers.

18.0% -18.6%

CELL EFFICIENCY

12 YEARS

PRODUCT WARRANTY

0 - 3%

POWER TOLERANCE

POWER WARRANTY



80% Power Output Warranty



12 90% Power Output Warranty



12 Material & Workmanship Warranty



Performance

High output and efficiency even under low light conditions



Versatility

Salt mist corrosion tested, perfect for harsh climatic conditions



Reliability

Durable and reliable solar panels due to stringent quality control measures, testing and strict selection of raw materials and components. PID free (TUV certified)



Design and Innovation

Perlight is committed to innovation and constantly working to provide the next breakthrough in solar technology: the new All Black panel is an example of this commitment.

MONOCRYSTALLINE, 66-CELL SERIES

ELECTRICAL PERFORMA	NCE					
Module type			PLM-28	5M-66		
Power output	P _{mex}	W	270	275	280	285
Power output tolerances	ΔP_{max}	%		0	- 3	
Voltage at Pmax	V _{mpp}	٧	34.10	34.21	34.32	34.43
Current at Pmax	Impp	Α	7.92	8.04	8.16	8.28
Open-circuit voltage	Voc	ý	40.70	40.81	40.90	40.99
Short-circuit current	lec	Α	8.85	8.98	9.12	9.26

STC: 1000W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.

THERMAL CHARACTERISTICS			
Nominal operating cell temperature	NOCT	*C	45±2
Temperature coefficient of Pmax	, V	%/°C	-0.459
Temperature coefficient of Voc	Bvoc	%/°C	-0.31
Temperature coefficient of Isc	Olec	%/°C	0.03
Temperature coefficient of Vmpp	Brimpp	%/°C	-0.40

Max. system voltage	1000Vpc	
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	
Max, hailstone impact (diameter / velocity)	25mm / 23m/s	

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	white
Cell (quantity / material / dimensions)	66 / monocrystalline silicon / 156 x 156mn
Frame (material / color)	anodized aluminum alloy / silver
Junction box (protection degree)	>IP65
Cables & Plug connectors	900mm / 4mm² & MC4 compatible / IP67
Module Dimensions (L / W / H)	1808mm x 992mm x 40mm
Module Weight	20kg

PACKING DETAILS		
Container	20'GP	40'HQ
Pieces per pallet	52	56
Pallets per container	6	12
Pieces per container	312	672





QUALIFICATIONS & CERTIFICATIONS

IEC 61215, IEC 61730, CE, IEC 62804 (PID Free), UL 1703, J-PEC, PV CYCLE, IEC/EN 61701, IEC 62716





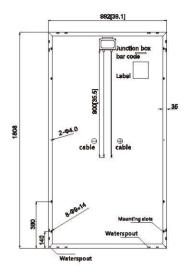


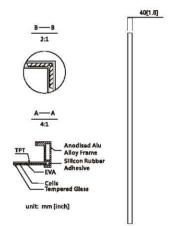






Module Diagram:





Electrical Curves:

