

# PLM-100M-36 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.

15.0% -18.2%

**CELL EFFICIENCY** 

## 12 YEARS

PRODUCT WARRANTY

0 -3%

**POWER TOLERANCE** 

## **POWER WARRANTY**



80% Power Output Warranty



90% Power Output Warranty



Material & Workmanship Warranty



## **Performance**

High output and efficiency even under low light conditions



#### Versatililty

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, 36-CELL SERIES**

Module type			PLM-100M-36		
Power output	P <sub>mex</sub>	W	80	90	100
Power output tolerances	$\Delta P_{max}$	%	0	- 3	
Voltage at Pmax	Vmpp	٧	17.14	18.04	18.94
Current at Pmax	Impp	A	4.67	4.99	5.28
Open-circuit voltage	Voc	٧	21.94	22.32	22.74
Short-circuit current	L <sub>ec</sub>	Α	5.08	5.47	5.66

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	ע	%/°C	-0.44
Temperature coefficient of Voc	Bvoc	%/°C	-0.36
Temperature coefficient of Isc	Clec	%/°C	0.033
Temperature coefficient of Vmpp	Brimpp	%/°C	-0.40

Max. system voltage	600Vpc	
Max. system tomage	GOOTEC	
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)	36 / monocrystalline silicon / 125 x 125mm
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)	1195mm x 541mm x 35mm
Module Weight	7.7kg

PACKING DETAILS		
Container	20'GP	40'HQ
Pieces per pallet	1	1
Pallets per container	9	19
Pieces per container	730	1840





### **QUALIFICATIONS & CERTIFICATIONS**

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





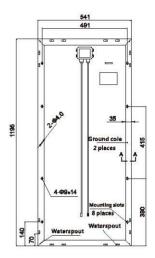


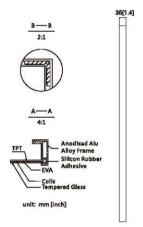






## **Module Diagram:**





### **Electrical Curves:**

