

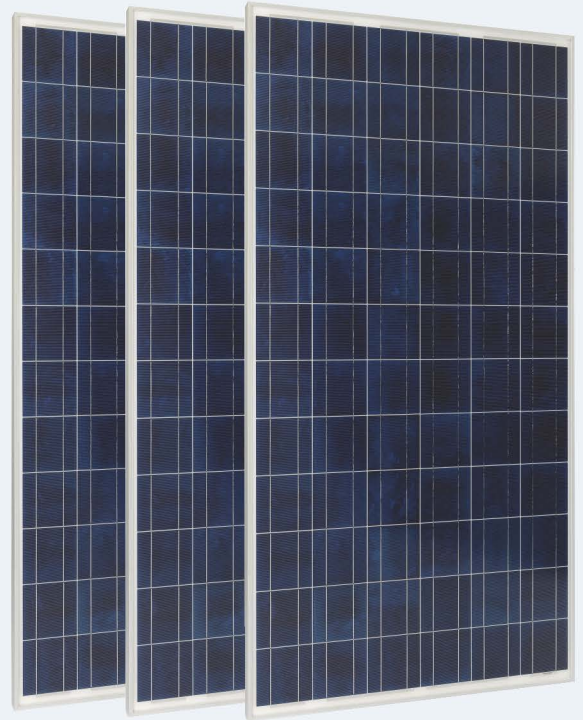


**PERLIGHT**

*Powering Possibilities*

## PLM-310P-72 SERIES

Polycrystalline 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.

**17.0% -18.0%**

CELL EFFICIENCY

**12 YEARS**

PRODUCT WARRANTY

**0 -3%**

POWER TOLERANCE

### POWER WARRANTY

**25 YEAR** 80% Power Output Warranty

**12 YEAR** 90% Power Output Warranty

**12 YEAR** 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.

# POLYCRYSTALLINE, 72-CELL SERIES

## ELECTRICAL PERFORMANCE

Module type	PLM-310P-72						
Power output	$P_{max}$	W	290	295	300	305	310
Power output tolerances	$\Delta P_{max}$	%					0 - 3
Voltage at Pmax	$V_{mpp}$	V	37.14	37.58	38.08	38.32	38.47
Current at Pmax	$I_{mpp}$	A	7.81	7.85	7.88	7.96	8.06
Open-circuit voltage	$V_{oc}$	V	44.84	44.92	45.10	45.30	45.47
Short-circuit current	$I_{sc}$	A	8.38	8.47	8.49	8.52	8.60

STC: 1000W/m<sup>2</sup> 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	$\mu$	%/°C	-0.45
Temperature coefficient of Voc	$B_{voc}$	%/°C	-0.34
Temperature coefficient of Isc	$\alpha_{isc}$	%/°C	0.06
Temperature coefficient of Vmpp	$B_{vmpp}$	%/°C	-0.40

## OPERATING CONDITIONS

Max. system voltage	1000V <sub>dc</sub>
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

## MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	white
Cell (quantity / material / dimensions)	72 / polycrystalline silicon / 156 x 156mm
Frame (material / color)	anodized aluminum alloy / silver
Junction box (protection degree)	> IP65
Cables & Plug connectors	900mm / 4mm <sup>2</sup> & MC4 compatible / IP67
Module Dimensions (L / W / H)	1956mm x 992mm x 40mm
Module Weight	21.6kg

## PACKING DETAILS

Container	20'GP	40'HQ
Pieces per pallet	52	56
Pallets per container	5	11
Pieces per container	260	616



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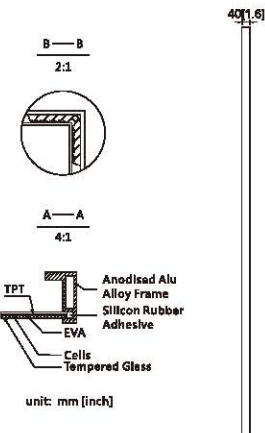
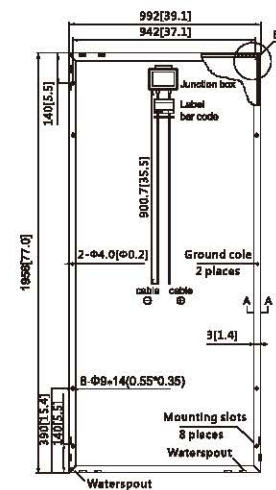
Perlight Partners

## 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:

