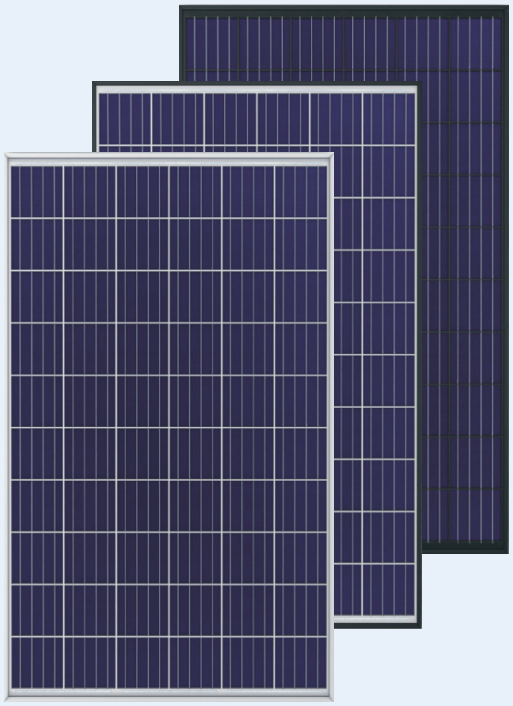
PERLIGHT
Powering Possibilities



PLM-260P-60 SERIES
PLM-260PB-60 SERIES

Polycrystalline Silicon Solar Module

PERLIGHT SOLAR

Founded in 2006, Perlight is a Global Solar Energy provider with a presence in more than 80 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.

17.4% -19.2%
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, 60-CELL SERIES

ELECTRICAL PERFORMANCE

Module type			PLM-260P-60 / PLM-260PB-60						
Power output	P_{max}	W	250	255	260	265	270	275	280
Power output tolerances	ΔP_{max}	%	0 - 3						
Voltage at Pmax	V_{mpp}	V	29.95	30.29	30.63	30.96	31.22	31.54	31.86
Current at Pmax	I_{mpp}	A	8.35	8.42	8.49	8.56	8.65	8.72	8.79
Open-circuit voltage	V_{oc}	V	37.63	37.83	37.97	38.13	38.23	38.49	38.81
Short-circuit current	I_{sc}	A	8.90	8.97	9.05	9.10	9.13	9.16	9.21
Module Efficiency	Eff.	%	15.37	15.68	15.99	16.29	16.60	16.91	17.22

STC: 1000W/m^2 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	γ	%/°C	-0.40
Temperature coefficient of Voc	β_{Voc}	%/°C	-0.30
Temperature coefficient of Isc	α_{Isc}	%/°C	0.06
Temperature coefficient of Vmpp	β_{Vmpp}	%/°C	-0.35

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
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

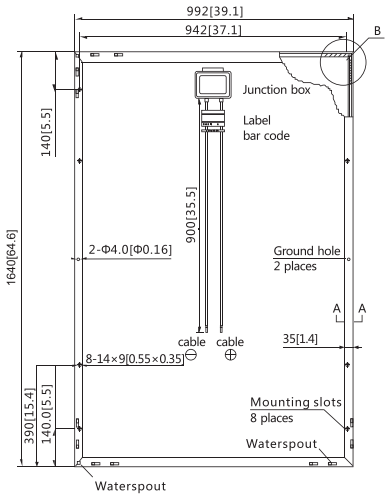
MECHANICAL CHARACTERISTICS

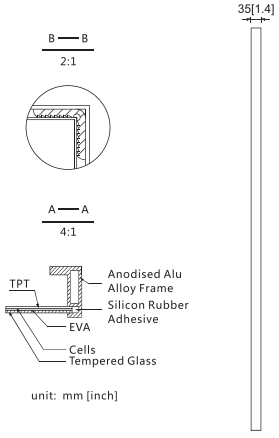
Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	white / black
Cell (quantity / material / dimensions)	60 / polycrystalline silicon / 156 x 156mm
Frame (material / color)	anodized aluminum alloy / silver / black
Junction box (protection degree)	⩾IP65
Cables & Plug connectors	900mm / 4mm^2 & MC4 compatible / IP67
Module Dimensions (L / W / H)	1640mm x 992mm x 35mm
Module Weight	17.6kg

PACKING DETAILS

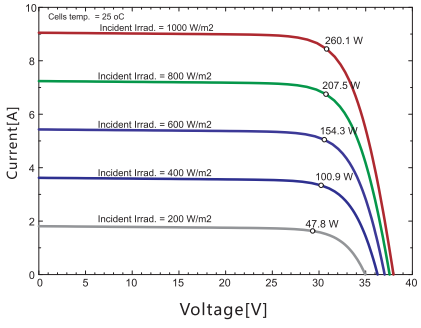
Container	20'GP	40'HQ
Pieces per pallet	60	66
Pallets per container	6	14
Pieces per container	360	924

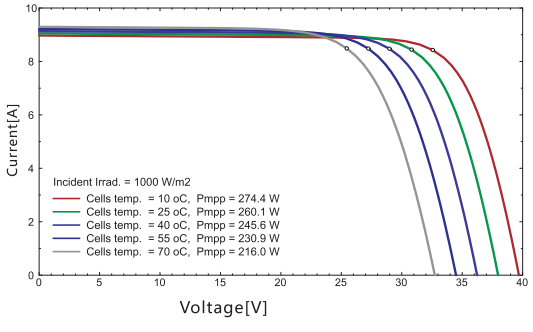
Module Diagram:





Electrical Curves:





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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

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