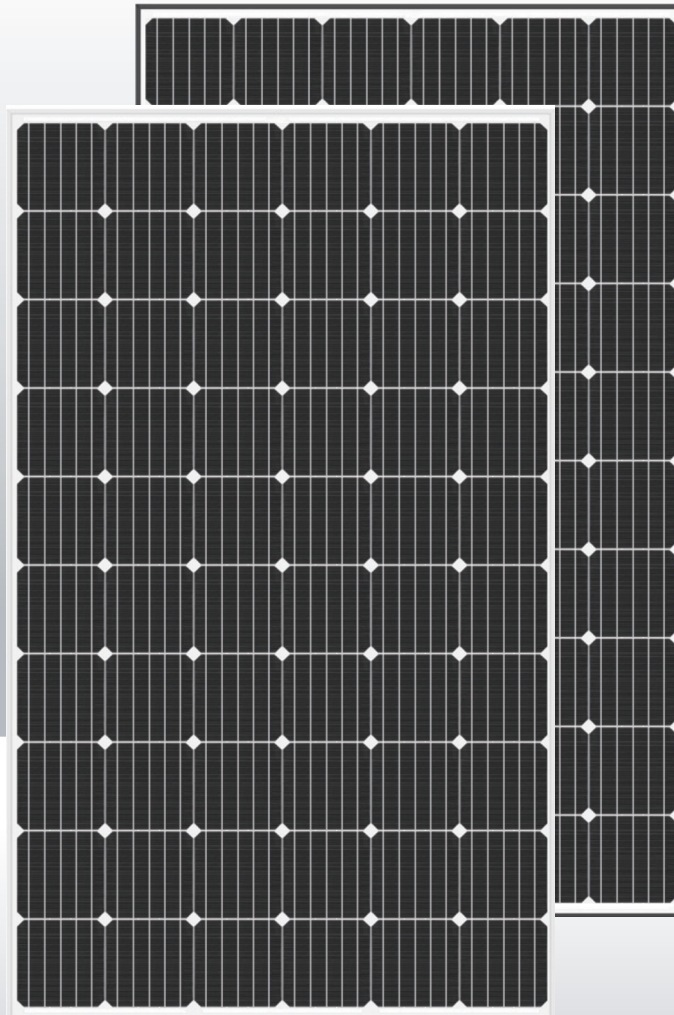


ThinkTop series

300W / 305W / 310W **60 CELLS**
High Efficiency PERC Cells



PERLIGHT
smart.black



THINK TOP SERIES: PLM-300M-60 MONOCRYSTALLINE SILICON SOLAR MODULE

310W OF POWER IN A STANDARD 60 CELL CONFIGURATION
MORE POWER PER M²

20% MORE POWER THAN A CONVENTIONAL 60 CELL 250W MODULE
MODULE EFFICIENCY OF 19.06%



PRODUCT
WARRANTY



PERFORMANCE
WARRANTY (80%)



POSITIVE
TOLERANCE



MAX CELL
EFFICIENCY



MAX MODULE
EFFICIENCY



3 STEPS
EL TEST

ThinkTop series

ELECTRICAL PERFORMANCE

Module type		PLM-300M-60 Series						
Power output	P_{max}	W	290	295	300	305	310	315
Power output tolerances	ΔP_{max}	%	0 - 3					
Voltage at Pmax	V_{mpp}	V	32.70	32.93	33.12	33.30	33.48	33.66
Current at Pmax	I_{mpp}	A	8.87	8.96	9.06	9.16	9.26	9.36
Open-circuit voltage	V_{oc}	V	39.57	39.85	40.08	40.29	40.51	40.73
Short-circuit current	I_{sc}	A	9.48	9.55	9.65	9.75	9.85	9.95
Solar Module Efficiency	Eff.	%	17.83	18.13	18.44	18.75	19.05	19.36

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	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

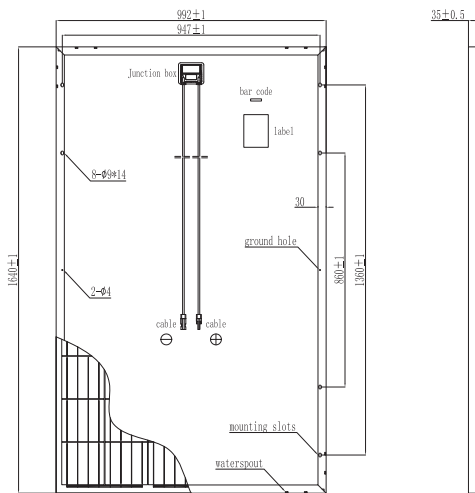
Front cover (material / thickness)	Tempered glass + ARC glass/3.2mm
Backsheet (color)	White
Cell (quantity/material/dimensions)	60 / monocrystalline silicon / 156.75 x 156.75mm
Frame (material / color)	anodized aluminum alloy / Black / Silver
Junction box (protection degree)	≥ IP67
Cables & Plug connectors	900mm / 4mm ² & MC4 compatible / IP67
Module Dimensions (L / W / H)	1640mm x 992mm x 35mm
Module Weight	18 kg

PACKING DETAILS

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

Perlight Partners

Module Diagram:



Electrical Curves:

