

Think Smart series

265W / 270W 54 CELLS COMPACT MODULE

High Efficiency PERC Cells



PERLIGHT

smart.black

12
YEAR

PRODUCT
WARRANTY

12
YEAR

PERFORMANCE
WARRANTY (90%)

25
YEAR

PERFORMANCE
WARRANTY (80%)

+3%

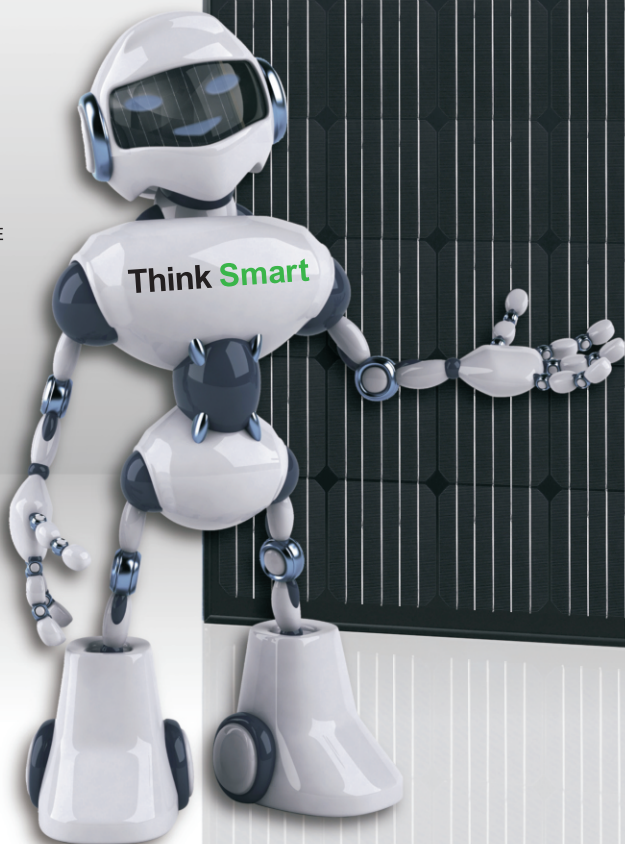
POSITIVE TOLERANCE

21.8%

CELL
EFFICIENCY

18.4%

MODULE
EFFICIENCY



TIGO SMART
JUNCTION BOX



DIODES

MONITORING

SAFETY

OPTIMIZATION

LONGER STRINGS

THINK SMART SERIES: PLM-270M-54 MONOCRYSTALLINE SILICON SOLAR MODULE

COMPACT SIZE. IDEAL FOR SMALLER ROOFS.
SAME POWER OUTPUT AS STANDARD SIZE PANEL.
EASIER TO HANDLE. NEW JUNCTION BOX



Think Smart series

ELECTRICAL PERFORMANCE

Module type	PLM-270M-54 Series						
Power output	P _{max}	W	250	255	260	265	270
Power output tolerances	ΔP _{max}	%	0 - 3				
Voltage at Pmax	V _{mpp}	V	28.68	29.02	29.25	29.48	29.81
Current at Pmax	I _{mpp}	A	8.72	8.79	8.89	8.99	9.06
Open-circuit voltage	V _{oc}	V	34.70	35.11	35.39	35.67	36.07
Short-circuit current	I _{sc}	A	9.34	9.40	9.48	9.53	9.60
Solar Module Efficiency	Eff.	%	17.01	17.35	17.69	18.03	18.37
STC:1000W/m ² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.							

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	ν	%/°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

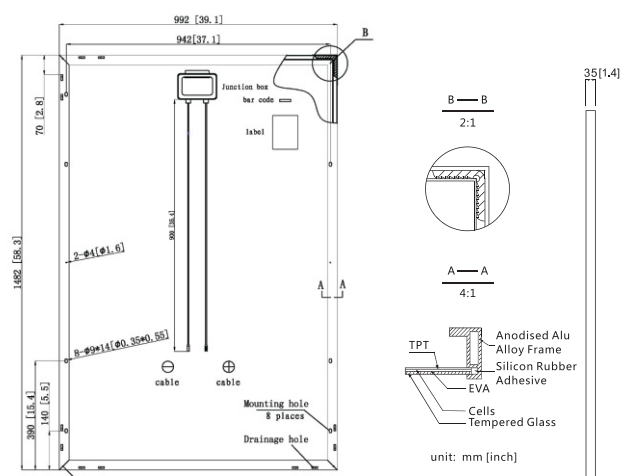
MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	Tempered glass + ARC glass/3.2mm
Backsheet (color)	black
Cell (quantity/material/dimensions)	54/monocrystalline silicon/156.75x156.75mm
Frame (material / color)	anodized aluminum alloy / black
Junction box (protection degree)	≥ IP67
Cables & Plug connectors	900mm / 4mm ² & MC4 compatible/IP67
Module Dimensions (L / W / H)	1482mmx992mmx35mm
Module Weight	16.0kg

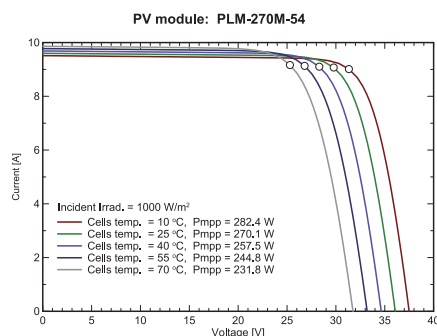
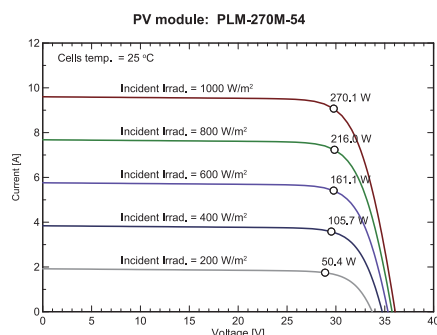
PACKING DETAILS

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

Module Diagram:



Electrical Curves:



Perlight Partners



DIODES MONITORING SAFETY OPTIMIZATION LONGER STRINGS

- String length increased up to 30%
- Fewer BOS components
- Faster installation
- Inverter optimization
- Lower wire-losses
- Plus all the benefits of Optimization