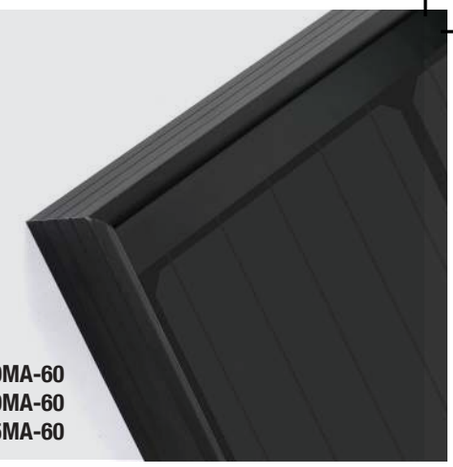
PERLIGHT
smart.black

MONO 60 CELL SERIES

320W • 300W • 285W



320W: PLM-320M-60 • PLM-320MB-60 • PLM-320MA-60
300W: PLM-300M-60 • PLM-300MB-60 • PLM-300MA-60
285W: PLM-285M-60 • PLM-285MB-60 • PLM-285MA-60



SMART-READY
AT NO EXTRA COST

EASY UPGRADE TO SMART
AT LOW COST

PERC PASSIVATED EMITTER REAR CELL TECH

Black Plus | Delta Black | Silver Plus | BW Plus

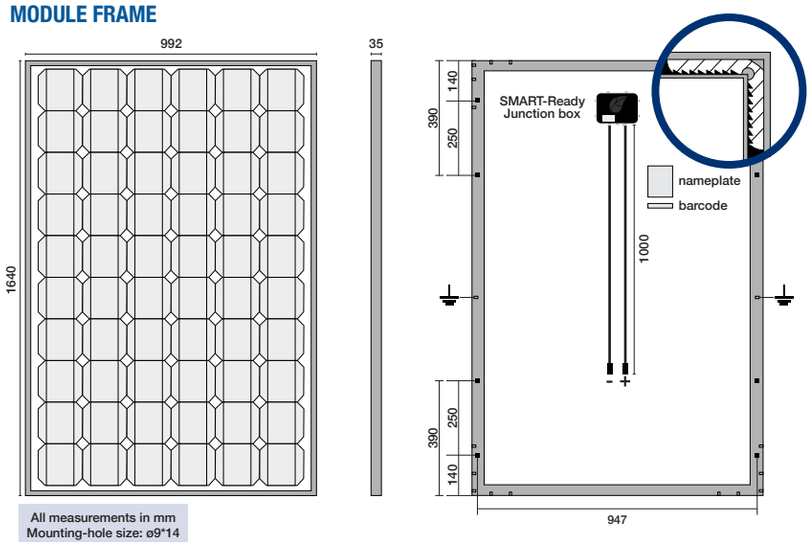
Powered by Tigo

- ✓ Field replacable diode cover
- ✓ Lower junction box temperature
- ✓ Upgradable to add functionality
- ✓ Cover upgrade options:
  - Module-level monitoring
  - Advanced Safety
  - Optimisation
  - Long Strings
- ✓ Approved by all major inverter manufacturers

Guaranteed by PERLIGHT

- ✓ Quality Guaranteed
- ✓ 12 Year Workmanship Warranty
- ✓ 25 Year Output Performance Warranty
- ✓ >90% Output for 12 Years
- ✓ >80% Output for 25 Years
- ✓ Over 30 Years Manufacturing Experience

MODULE FRAME



All measurements in mm
Mounting-hole size: ø9*14

- ✓ Extremely reliable screw-less, interconnected frame for long-term flexibility and strength.
- ✓ 8 mounting holes for direct mounting option.
- ✓ Suitable for Insertion System on both long and short sides.
- ✓ 20 in-built drainage waterspouts.
- ✓ 2 earth (ground) points.
- ✓ Tempered ARC (anti-reflective) Front Glass.

Long Side Clampimg Zones:
0mm to 410mm from edge.

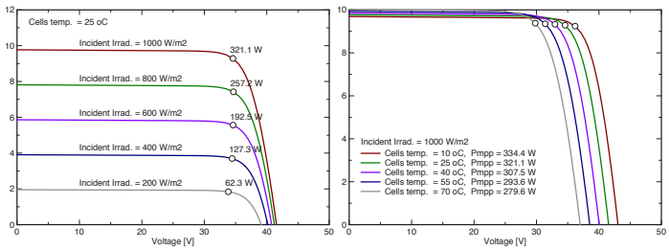
Short Side Clamping Zones:
0mm to 248mm from edge.

MECHANICAL CHARACTERISTICS

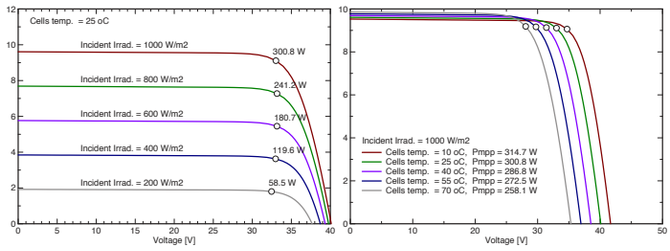
Front cover	3.2mm Tempered ARC glass
Backsheet colour	Black/White
Type of Cells	Mono PERC 156.75x156.75mm
Number of Cells	60
Frame	Black/Silver Anodised Aluminium
Junction box	TIGO TS4 IP67
Cables	1000mm/4mm²
Connectors	MC4 compatable IP67
Module dimensions	1640 x 992 x 35mm
Module weight	18kg

ELECTRICAL CURVES

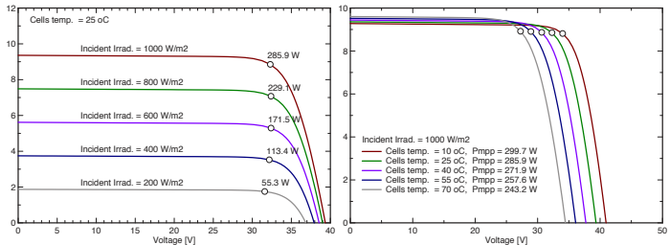
320W (PLM-320M-60, PLM-320MB-60, PLM-320MA-60)



300W (PLM-300M-60, PLM-300MB-60, PLM-300MA-60)



285W (PLM-285M-60, PLM-285MB-60, PLM-285MA-60)



ELECTRICAL PERFORMANCE

Model Number			PLM-320M-60 PLM-320MB-60 PLM-320MA-60	PLM-300M-60 PLM-300MB-60 PLM-300MA-60	PLM-285M-60 PLM-285MB-60 PLM-285MA-60
Power Output	Pmax	W	320	300	285
Voltage at Pmax	Vmp	V	34.01	32.54	31.78
Current at Pmax	Imp	A	9.41	9.22	8.97
Open-circuit voltage	Voc	V	41.55	40.11	39.35
Short-circuit current	Isc	A	9.77	9.61	9.36
Solar Module Efficiency		%	19.67	18.44	17.52
Power Tolerance		%	-0/+3	-0/+3	-0/+3

OPERATING CONDITIONS

Max. system voltage	1000VDC
Limiting reverse current	15A
Operating temperature range	-40ºC to 85ºC
Max. static load front (e.g., snow)	5400Pa
Max. static load back (e.g., wind)	2400Pa
Max. hailstone impact	25mm@23m/s

THERMAL CHARACTERISTICS

NOCT	45±2 ºC
Temp. coefficient Pmax	-0.40 %/ºC
Temp. coefficient Voc	-0.30 %/ºC
Temp. coefficient Isc	0.06 %/ºC
Temp. coefficient Vmpp	-0.35 %/ºC

- ✓ MCS Certified
- ✓ Positive output tolerance
- ✓ Fire safety certified
- ✓ PID-Free certified
- ✓ Ammonia corrosion resistance certified
- ✓ Salt mist corrosion resistance certified
- ✓ Worldwide accreditation

PV CYCLE
WEE/BB4647YX

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