

Classic Style  
Monocrystalline  
Smart-Ready Junction box

Powered by **Tigo**<sup>®</sup>

Field replaceable diode cover  
Lower junction box temperature  
Upgradable to add functionality

Cover upgrade options:

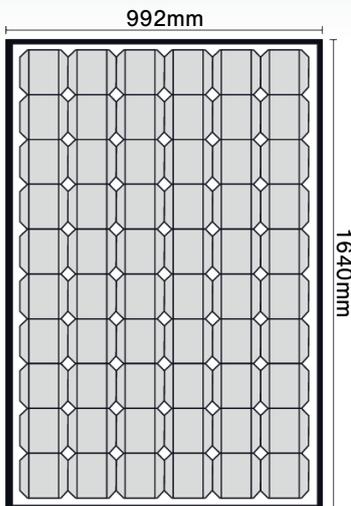
- Module-level monitoring
- Advanced Safety
- Optimisation
- Long Strings

Approved by all major inverter manufacturers

**PERC**

Passivated Emitter Rear Cell Technology

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



Weight: 18kg



**MONO PLUS<sup>+</sup> SERIES: 320W**

60 CELL MONOCRYSTALLINE SILICON SOLAR MODULE

STATE OF THE ART HIGH EFFICIENCY

MANUFACTURING BASE

Perlight Solar Co.,Ltd  
Mayu Administration District,  
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GLOBAL MARKETING CENTRE

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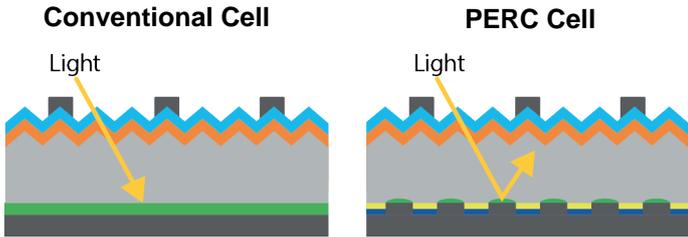
# PERLIGHT SOLAR MONOCRYSTALLINE SERIES

## PLM-320M-60 • 320W MONO PLUS<sup>+</sup>

Module Specifications



Passivated Emitter Rear Cell Technology



Some solar energy is lost in **conventional solar cells** when light passes through the top layer and gets absorbed by the back of the cell. **PERC cells** reflect this energy back through the cell layers, boosting power production.

### MECHANICAL CHARACTERISTICS

Front cover	3.2mm Tempered ARC glass
Backsheet colour	White
Type of Cells	Mono PERC 156x156mm
Number of Cells	60
Frame	Black Anodised Aluminium
Junction box	TIGO TS4 IP67
Cables	900mm/4mm <sup>2</sup>
Connectors	MC4 compatible IP67
Module dimensions	1640 x 992 x 35mm
Module weight	18kg

### THERMAL CHARACTERISTICS

NOCT	°C	45±2
Temperature coefficient Pmax	%/°C	-0.40
Temperature coefficient Voc	%/°C	-0.30
Temperature coefficient Isc	%/°C	0.06
Temperature coefficient Vmpp	%/°C	-0.35

### OPERATING CONDITIONS

Max. system voltage	1000VDC
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	25mm@23m/s

### ELECTRICAL PERFORMANCE

Model Number	PLM-320M-60		
Power Output	Pmax	W	320
Voltage at Pmax	Vmp	V	34.01
Current at Pmax	Imp	A	9.41
Open-circuit voltage	Voc	V	41.55
Short-circuit current	Isc	A	9.77
Solar Module Efficiency	%		19.67
Power Tolerance	%		-0/+3

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.

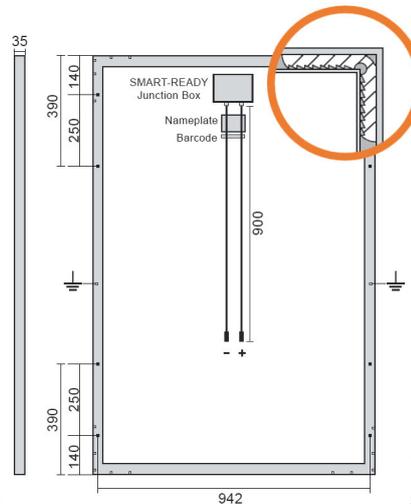


- Field replaceable
- Upgradable
- Advanced TS4 Baseplate
- Heat dissipated away from the module
- Applicable to Conventional & Smart Modules



Smart-Ready Diode Cover as standard

### MODULE FRAME



All measurements in mm  
Mounting-hole size: Ø9\*14

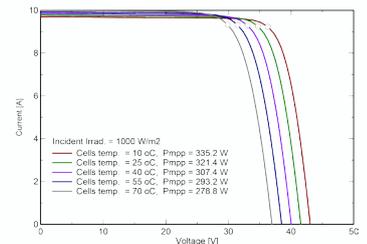
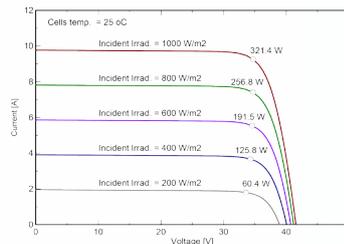
- Extremely reliable screw-less, interconnected frame for long-term flexibility and strength.
- 8 mounting holes for direct mounting option.
- Suitable for Insertion System on both long and short sides.
- 20 in-built drainage water-spouts.
- 2 earth (ground) points.
- Tempered ARC (anti-reflective) Front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

**Long Side Clamping Zones:**  
0mm to 410mm from edge.

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

### ELECTRICAL CURVES

PLM-320M-60



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



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