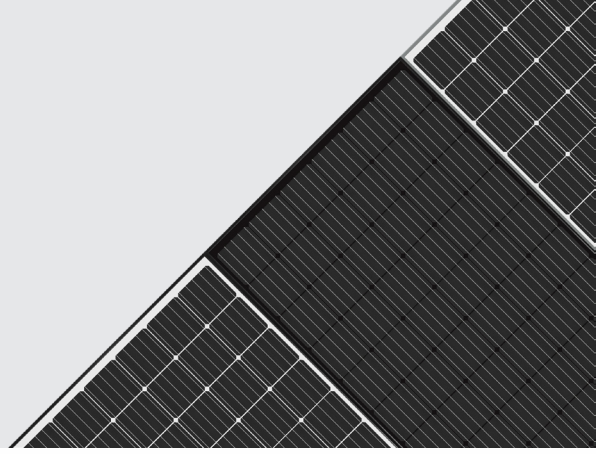




**PERLIGHT**  
smart.black

# 320W PLUS<sup>+</sup> MONO 60 CELL SERIES

PLM-320M-60 • PLM-320MB-60



**SMART-READY**  
AT NO EXTRA COST

**EASY UPGRADE TO SMART**  
AT ANY TIME

**PERC** PASSIVATED EMITTER  
REAR CELL TECH

**Silver Plus**

**Black Plus**

**BW Plus**

Powered by **Tigo**

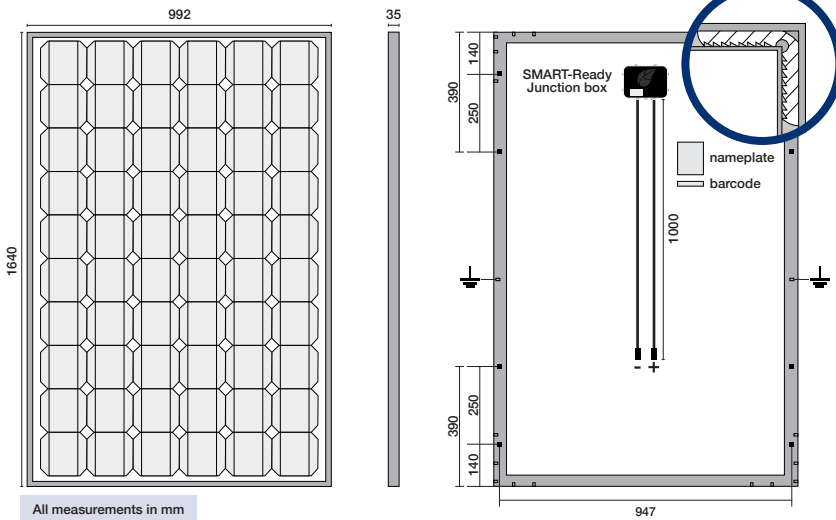
Guaranteed by **PERLIGHT**

- ✓ 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

- ✓ 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 Clamping Zones:  
0mm to 410mm from edge.

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

## ELECTRICAL PERFORMANCE

Model Number	PLM-320M-60	PLM-320MB-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

## PERLIGHT PLUS SERIES - A NEW GENERATION OF SMART PV MODULES

High-performance PERC cell modules available in three elegant styles.

**SilverPlus\***: Classic white backsheet & silver frame

**BW Plus\***: Clean white backsheet with a sleek black frame.

**BlackPlus\***: Black backsheet & black frame.

Expertly crafted, Perlight solar modules are built to deliver optimum performance in all applications and environments including low light levels.

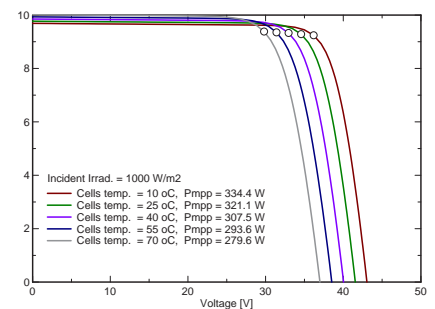
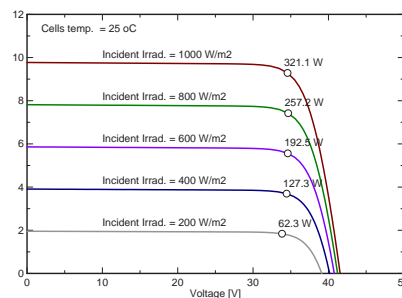
Each Plus Series module is integrated with the advanced Tigo Smart-Ready junction box, which offers greater reliability than a conventional junction box due to lower operating temperature and an interchangeable diode cover. Furthermore, the diode cover can be upgraded at any time to offer module-level monitoring, optimisation for shaded arrays, enhanced safety features and much more. Visit [www.westech-solar.co.uk](http://www.westech-solar.co.uk) for more details.

## 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/4mm <sup>2</sup>
Connectors	MC4 compatible IP67
Module dimensions	1640 x 992 x 35mm
Module weight	18kg

## ELECTRICAL CURVES

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



STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.

## 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

## THERMAL CHARACTERISTICS

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

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



## MANUFACTURING BASE

Perlight Solar Co., Ltd  
Mayu Administration District,  
Wenling, Zhejiang,  
317521, China  
✉ [jenny.uk@perlight.com](mailto:jenny.uk@perlight.com)

## GLOBAL MARKETING CENTRE

Perlight Solar Co., Ltd  
E# 14<sup>th</sup> Floor, 58 Xinjingqiao Rd,  
PuDong District, Shanghai,  
200129, China  
✉ [enquiry@perlight.com](mailto:enquiry@perlight.com)

## EU SALES & CUSTOMER CENTRE

Westech Solar (UK) Ltd  
Unit 1 Bobby Fryer Close,  
Garsington Rd, Oxford,  
OX4 6ZN  
✉ [info@westech-solar.co.uk](mailto:info@westech-solar.co.uk)



+44 (0)1865 682 584 • [westech-solar.co.uk](http://westech-solar.co.uk)