



PERLIGHT
smart.black

MONO BW SERIES

60 CELL SERIES • 320W • 310W • 300W

- ✓ **HIGH EFFICIENCY**
HIGH PERFORMANCE
- ✓ **REFINED**
CLASSIC STYLE
- ✓ **SMART-READY**
AT NO EXTRA COST
- ✓ **EASY UPGRADE TO SMART**
AT LOW COST



GUARANTEED BY



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PERC PASSIVATED EMITTER
REAR CELL TECH

POWERED BY **Tigo**[®]

- ✓ **FIELD REPLACEABLE DIODE COVER**
- ✓ **LOWER JUNCTION BOX TEMPERATURE**
- ✓ **UPGRADABLE TO ADD FUNCTIONALITY**
- ✓ **COVER UPGRADE OPTIONS:**
 - **MODULE-LEVEL MONITORING**
 - **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



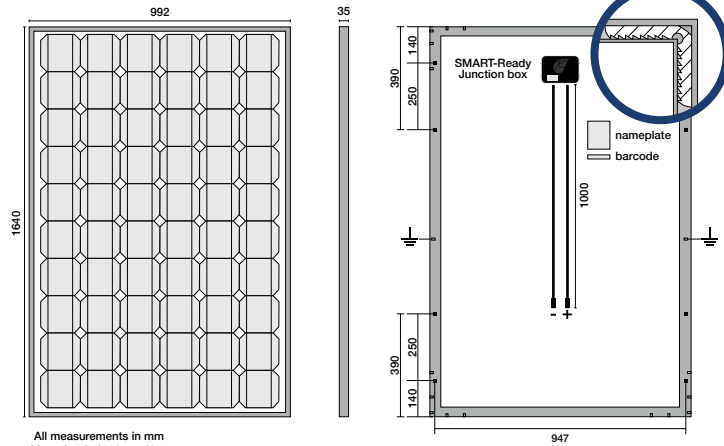
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MODULE FRAME



- ✓ 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.

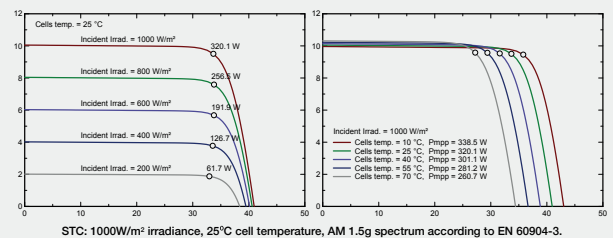
Short Side Clamping Zones:
0mm to 248mm from edge.

MECHANICAL CHARACTERISTICS

Front Cover	3.2mm Tempered ARC glass
Backsheet Colour	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 ²
Connectors	MC4 compatible IP67
Module Dimensions	1640 x 992 x 35mm
Module Weight	18kg

ELECTRICAL CURVES

320W (PLM-320M-60)



ELECTRICAL PERFORMANCE

Model Number		PLM-320M-60	PLM-310M-60	PLM-300M-60
Power Output	Pmax W	320	310	300
Voltage at Pmax	Vmp V	33.84	33.48	33.12
Current at Pmax	Imp A	9.46	9.26	9.06
Open-circuit voltage	Voc V	40.95	40.51	40.08
Short-circuit current	Isc A	10.05	9.85	9.65
Solar Module Efficiency	%	19.67	19.05	18.44
Power Tolerance	%	-0/+3	-0/+3	-0/+3

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

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



Official Perlight UK & EU Customer Centre

