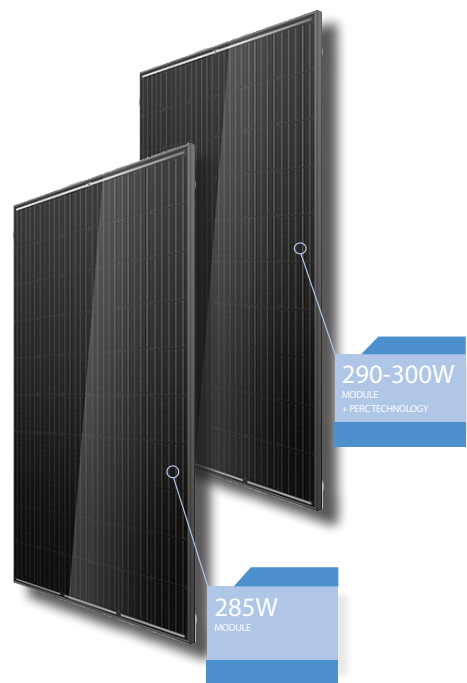


SAPPHIRE SOLAR GEM SERIES SS285-300M/60 FULL BLACK MONOCRYSTALLINE MODULES



WE MAKE THINGS WORK THE WAY YOU WISH THEY WOULD.

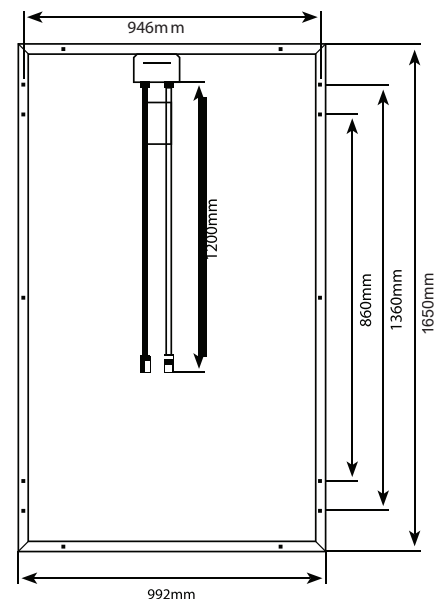
- Sleek black design
- Premium cell technology produces a high module efficiency
- State-of-the-art PERC technology in the 290-300W module range
- Waterproof (IP67 rated) junction box
- Anti-UV backsheet for superior weather resistance and long-term durability
- 5-busbar technology for enhanced cell output
- Anti-reflective tempered glass coating to maximise light penetration
- Combined 25+25 year product and performance warranty
 - 25 year product
 - 25 year performance (80%) / 12 year performance warranty (90%)



SPECIFICATIONS

ELECTRICAL CHARACTERISTICS		285W	290W	295W	300W
Rated Power at STC (PmPP)	W	285	290	295	300
Power Tolerance	W	0-3	0-3	0-3	0-3
Maximum Power at STC	W	288	293	298	303
Cell Efficiency	%	20.5	21.4	21.7	22.0
Minimum Module Efficiency (%)	%	17.6	17.9	18.2	18.7
Maximum Rated Power Voltage (Vmpp)	V	31.8	32.2	32.4	32.9
Maximum Rated Power Current (Impp)	A	8.70	8.75	9.12	9.16
Open Circuit Voltage (Voc)	V	38.6	39.0	39.7	39.9
Short Circuit Current	A	9.38	9.46	9.64	9.71
Maximum System Voltage	V	1000	1000	1000	1000
Maximum Series Fuse Rating	A	15A	15A	15A	15A
Fire Rating		Class A	Class A	Class A	Class A

MECHANICAL CHARACTERISTICS	
Solar Cells	Monocrystalline 156.75mmx156.75mm (60 cells)
Dimensions	1650 x 992 x 35mm
Weight	19.0kg
Front Glass	3.2mm tempered, antireflective glass
Frame	Anodized/electrophoretic aluminium alloy
Cables	4.0mm ² , symmetrical lengths 1.2m
Connector	Genuine MC4
Junction Box	IP67 rated fully sealed



TEMPERATURE CHARACTERISTICS	SS285M/60	SS290-300M/60 (PERC)
Temperature Coefficient Pmax	-0.42%/°C	-0.39%/°C
Temperature Coefficient Voc	-0.32%/°C	-0.29%/°C
Temperature Coefficient Isc	+0.04%/°C	+0.05%/°C
Operating temperature	-40°C --+85°C	-40°C --+85°C
NOCT (Nominal Operation Cell Temperature)	45°C +/- 2°C	45°C +/- 2°C

PACKAGING CONFIGURATION	
Container	40" GP
Pieces per Pallet	30
Pallets per Container	28
Pieces per Container	840



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