

SAPPHIRE SOLAR GEM SERIES SS270-280P/60A POLYCRYSTALLINE MODULES



WE MAKE THINGS WORK THE WAY YOU WISH THEY WOULD.

- Premium cell technology produces a high module efficiency
- Waterproof (IP67 rated) junction boxes
- Anti-UV backsheet provides superior weather resistance and long-term durability to protect against discolouration and optimise light capture
- 5-busbar technology for enhanced cell output
- Anti-reflective tempered glass coating to maximise light penetration
- 10 years product warranty
- 12 years @ 90% performance warranty
- 25 years @ 80% performance warranty



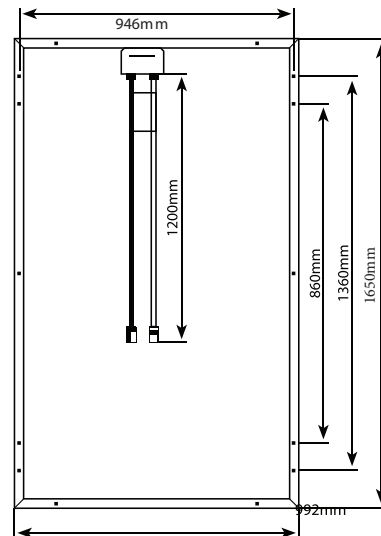
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SPECIFICATIONS

ELECTRICAL CHARACTERISTICS		SS270P/60A	SS275P/60A	SS280P/60A
Rated Power at STC (PmPP)	W	270	275	280
Power Tolerance	W	0-5	0-5	0-5
Maximum Power at STC	W	273	278	283
Cell Efficiency	%	18.8-19.0	19.1-19.3	19.4-19.6
Minimum Module Efficiency (%)	%	16.6-16.8	16.9-17.0	17.2-17.3
Maximum Rated Power Voltage (Vmpp)	V	31.1	31.2	31.3
Maximum Rated Power Current (Impp)	A	8.69	8.82	8.95
Open Circuit Voltage (Voc)	V	37.9	38.1	38.3
Short Circuit Current	A	9.15	9.27	9.41
Maximum System Voltage	V	1000	1000	1000
Maximum Series Fuse Rating	A	20A	20A	20A
Fire Rating		Class C	Class C	Class C

MECHANICAL CHARACTERISTICS	
Solar Cells	Polycrystalline 156.5mm x 156.5mm (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	
Temperature Coefficient Pmax	-0.41%/°C
Temperature Coefficient Voc	-0.33%/°C
Temperature Coefficient Isc	+0.067%/°C
Operating temperature	-40°C +85°C
NOCT (Nominal Operation Cell Temperature)	45°C +/- 2°C

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



Proudly 100% Australian-owned company, modules manufactured in China with premium componentry, assembly and testing.