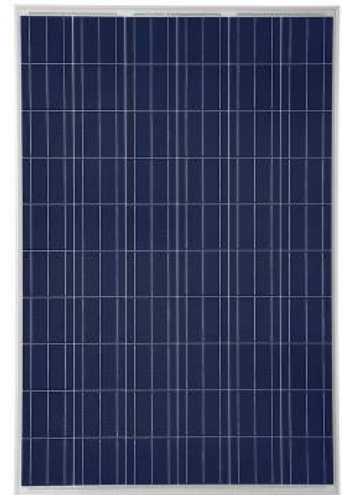


270W POLYCRYSTALLINE GEM SERIES SS270P/60



WE MAKE THINGS WORK THE WAY YOU WISH THEY WOULD.

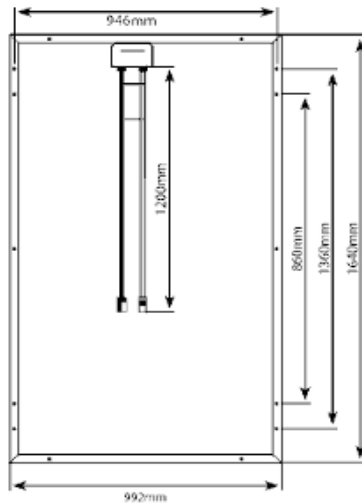
- Premium anti-PID cell technology produces a high module efficiency of up to 16.8%
- Waterproof (IP67 rated) German junction box
- Anti-UV backsheet provides superior weather resistance and long-term durability to protect against discolouration and optimise light capture
- 4-busbar technology for enhanced cell output
- Anti-reflective tempered glass coating to maximise light penetration
- Tier 1 bankability via Solarif
- Waterproof (IP67 rated) German junction box
- 10yr product warranty / optional 25yr warranty upgrade available
- 12yr (90%) performance warranty / 25yr (80%) performance warranty



www.sapphire-solar.com
info@sapphire-solar.com



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- **A-Grade Components** - careful procurement of trusted and compliant components such as industry-leading solar cells, back-sheets and encapsulants to suit high UV conditions.

- **A-Grade Procedures** - daily raw material checks, production inspections and procedure checks to ensure our strict manufacturing parameters are maintained.

- **A-Grade Testing** - stringent testing to ensure that every Sapphire Solar panel satisfies our strict performance and safety criteria

- **A-Grade Warranties** - 10yr product warranty (upgradeable to 25yrs) and 12yr (90%) / 25yr (80%) performance warranties provide complete peace of mind

SPECIFICATIONS

MECHANICAL CHARACTERISTICS

Solar Cells	Polycrystalline 156mm x 156mm (60 cells)
Dimensions	1640 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 German

TEMPERATURE CHARACTERISTICS

Temperature Coefficient Pmax	-0.42%/°C
Temperature Coefficient Voc	-0.32%/°C
Temperature Coefficient Isc	+0.04%/°C
Operating temperature	-10°C ~ +85°C
NOCT (Nominal Operation Cell Temperature)	45°C ± 2°C

ELECTRICAL CHARACTERISTICS

Rated Power at STC (PmPP)	W	270
Positive Power Tolerance	W	+5
Maximum Power at STC	W	273
Cell Efficiency	%	18.8 - 19.0
Minimum Module Efficiency (%)	%	16.6 - 16.8
Maximum Rated Power Voltage (Vmpp)	V	30.97
Maximum Rated Power Current (Impp)	A	8.72
Open Circuit Voltage (Voc)	V	38.72
Short Circuit Current (Isc)	A	9.31
Maximum System Voltage	V	1000
Maximum Series Fuse Rating	A	15A
Fire Rating		Class A

PACKAGING CONFIGURATION

Container	40' HQ
Pieces per Pallet	28
Pallets per Container	28
Pieces per Container	784