

# 270W BLACK POLYCRYSTALLINE GEM SERIES SS270P/60



## WE MAKE THINGS WORK THE WAY YOU WISH THEY WOULD.

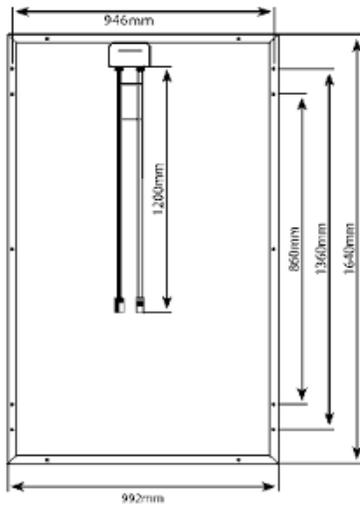
- Premium anti-PID cell technology produces a high module efficiency of up to 16.8%
- Waterproof (IP67 rated) German junction box
- Anti-UV backsheet for superior weather resistance and long-term durability
- 4-busbar technology for enhanced cell output
- Anti-reflective tempered glass coating to maximise light penetration
- Sleek black finish
- Tier 1 Quality Certification through SolarIF
- Combined 25-Year Product + Performance Warranty:
  - 25 years product warranty
  - 12 years @ 90% performance warranty
  - 25 years @ 80% performance warranty



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- **A-Grade Components** - careful procurement of trusted and compliant components such as industry-leading solar cells, backsheets 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** - Combined 25-Year Product and Performance Warranty provides complete peace of mind

## SPECIFICATIONS

### MECHANICAL CHARACTERISTICS

Solar Cells	Polycrystalline 156.75mm x 156.75mm (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 <sup>2</sup> , symmetrical legths 1.2m
Connector	Genuine MC4
Junction Box	IP67 rated fully sealed German Leoni

### 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	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

