

250W POLYCRYSTALLINE MODULE

SS3MB250P/60 - **BLACK SAPPHIRE**

Designed for harsh and rugged climates, the **NEW Black Sapphire** 250W polycrystalline module delivers a high-quality, powerful performance.

Like the strength of a precious sapphire, this Tier 1 rated module is durable and built to last, and with its sleek black design offers a premium point of difference.

ANTI-REFLECTIVE NANOTECHNOLOGY

Specialised tempered glass coating maximises light penetration and reduces dust contamination

ANTI-PID TECHNOLOGY

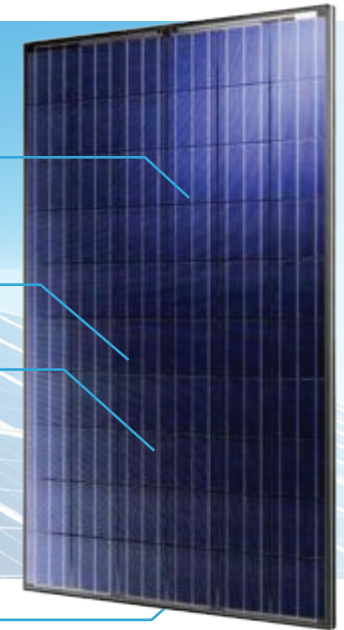
Protection against potential induced degradation (PID) eliminates leakage currents and optimises cell performance

SLEEK PREMIUM BLACK DESIGN

For those customers looking for a point of difference, the black frame and backsheet provide a stylish and sophisticated finish

UV-RESISTANT BACKSHEET

Provides critical, long-life protection from the harsh Australia climate, conferring durability and long-term PV system returns



THE A-GRADE ASSURANCE

A-Grade quality is like a rare gem, not often found in many panel products.

Sapphire Solar understands that building a high-quality solar Tier 1 rated module is about being at the heart of the production process and getting it right from the start.

Only our stringent quality assurance process delivers the Sapphire Solar A-Grade Assurance.

- 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 FEATURES

- Premium sleek black design whilst maintaining excellent output
- Anti UV backsheet provides superior weather resistance and long-term durability
- PID-resistant encapsulants protect against UV discolouration and optimise light capture
- Anti-reflective tempered glass coating maximises penetration of light to solar cells
- Premium anti-PID cell technology produces a high module efficiency of up to 15.7%
- IP67 rated, fully sealed German junction box

A-GRADE WARRANTIES

- Sapphire Solar 10/12/25 Warranty
- 10 year Product Warranty
 - 12 year Performance Warranty at 90% power output
 - 25 year Performance Warranty at 80% power output
 - Premium Linear Performance Warranty

As Sapphire Solar is a 100% Australian owned manufacturer, all warranty claims are handled locally and efficiently through our Melbourne head office.

MECHANICAL CHARACTERISTICS

Solar Cells	Polycrystalline 156mm x 156mm (60 cells)
Dimensions	1640 x 992 x 35/40mm
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

TEMPERATURE CHARACTERISTICS

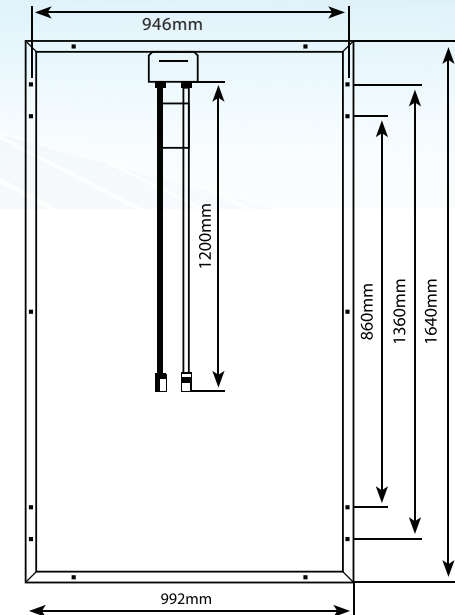
Temperature Coefficient Pmax	-0.42%/°C
Temperature Coefficient Voc	-0.32%/°C
Temperature Coefficient Isc	+0.04%/°C
Operating temperature	-10°C~+85°C
NOCT (Nominal Operation Cell Temperature)	45°C ± 2°C

ELECTRICAL CHARACTERISTICS

Rated Power at STC (Pmpp)	W	250
Positive Power Tolerance	W	+5
Maximum Power at STC	W	253
Cell Efficiency	%	17.6 - 17.8
Minimum Module Efficiency (%)	%	15.4 - 15.7
Maximum Rated Power Voltage (Vmpp)	V	30.34
Maximum Rated Power Current (Impp)	A	8.24
Open Circuit Voltage (Voc)	V	37.47
Short Circuit Current (Isc)	A	8.76
Maximum System Voltage	V	1000 (TUV)
Maximum Series Fuse Rating	A	15A
Fire Rating		Class A

PACKAGING CONFIGURATION

Container	40'HQ
Pieces per Pallet	30
Pallets per Container	28
Pieces per Container	840



LINEAR PERFORMANCE WARRANTY

