



Blue Sun Group



Clean Energy Council
MEMBER



** This brochure is correct at 2015 but subject to change without any notice.

** All modules are manufactured at higher than their nominal wattage rating.

** Manufactured by Blue Sun Group.

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ADVANCED
GERMAN
TECHNOLOGY



AUSTRALIAN
BACKED
WARRANTY

Blue Sun Group
Innovative Renewable Energy Systems

BSG GENERATION FIVE (G5)

ELECTRICAL CHARACTERISTICS

Type	BSG	BSG-250P5
Max-Power	Pm(W)	250
Power Tolerance	(%)	±5
Max-Power Voltage	Vm(V)	31.5
Max-Power Current	Im(A)	7.94
Open-Circuit Current	Voc(A)	37.8
Short-Circuit Current	Isc(A)	8.70
Max-System Voltage	(VDC)	1000
Cell Efficiency		17.1
Module Efficiency	(%)	15.3
Number,type and arrangement of cells	250P5	60pcs. Poly-Crystalline Silicon(6*10)
Equatorial EVA		High Shunt Resistance
Cell Size	(mm)	125*125
Im Temperature Coefficient	(%/C)	+0.1
Vm Temperature Coefficient	(%/C)	-0.38
Pm Temperature Coefficient	(%/C)	-0.47
Isc Temperature Coefficient	(%/C)	+0.1
Voc Temperature Coefficient	(%/C)	-0.38
NOCT-Nominal Operating Cell Temperature	(C)	48±2

ABSOLUTE RATINGS

Dielectric Insulation Voltage	(VDC)	3000 max.
Operating Temperature	(C)	-40~+85
Storage Temperature	(C)	-40~+85

***STC Conditions(1000W/m2; 1.5 AM and 25°C Cell temperature)**

MECHANICAL CHARACTERISTICS

Cable type, Diameter and Length		4mm ² , 1100mm
		Compatible Type III and Type IV
Dimension A*B*C	(mm)	1650*992*40
Weight	(Kg)	20
Glass, Type and Thickness		High Transmis., Low Iron, Tempered Glass 4mm.
Surface Maximum Load Capacity		60m/s (200kg/sq.m)

PACKAGING CONFIGURATION

Packing Configuration		1 single
Quantity/Pallet		20 pcs/pallet
Loading Capacity	250P5	520pcs/40ft

WARRANTY

Manufacturing		12 years
Power production		90% : 10 years
Loading Capacity		80% : 25 years

Self - clean surface

Our Nano Coating prevents Dust, Dirt, Bird and Bat dropping from adhering to the surface of the panel simply hose down the panel or allow the natural energy of the rain to wash away contaminants. The protective coating also can improve efficiencies in low light conditions.



NEW in G5!
BSG NANO COATING

1|SECURITY BAR CODE

The module security barcode information identifies model number,cell type, modules size and serial number as well as indicators of manufacture date and traceability of raw materials.

2|CONCEALED CROSS CONNECTIONS

The UNIQUE ability to conceal and position the cross connections away from the hottest section of the module (top and bottom edges) not only enhances the aesthetic aspect, it assists in the module longevity.

3|QUALITY BUILD MATERIALS

A Grade cells, superior marine and aircraft grade anodised aluminium frame, toughened hail resistant glass, quality electronic components Equatorial grade EVA combine to create unique modules designed for harsh Australian conditions.

4|EQUATORIAL GRADE ETHYLENE VINYL

ACETATE(EVA)

The EVA encapsulates the cells to provide a protective barrier against harmful environmental effects,enhances light transmittance,improves heat conductance away from the cells and insulates against earth current leakage.

5|ENGRAVING

The frame is engraved as an extra security measure to assist identification of genuine Blue Sun Group modules.

6|REPLACEABLE DIODES

Diodes protect the module against reverse current and power surges as well as assisting in performance when the panel is partially shaded.

7|MATCHED CELLS

Using a stringent selection process to match cells by grade and output creat high quality positive tolerance modules. Matched cells enhance long term performance.

8|HIGH SHUNT RESISTANCE

Cells with high Rsh values provide better performance in low light conditions. This optimises output during early morning,late afternoon and overcast conditions.

9|EXTENDED CABLE

10|GENUINE MC4 CONNECTORS

AVAILABLE COLORS BLACK / SILVER 4BB