



## 190W Solar Photovoltaic Module



### ELECTRICAL CHARACTERISTICS

Type	BSG	BSG-190M
Max-Power	Pm(W)	190
Power Tolerance	(%)	+5
Max-Power Voltage	Vm(V)	36
Max-Power Current	Im(A)	5.28
Open-Circuit Voltage	Voc(V)	45
Short-Circuit Current	Isc(A)	5.5
Max-System Voltage	(VDC)	1000
Cell Efficiency	ηc (%)	18
Number, type and arrangement of cells		72 pcs. Mono-Crystalline Silicon (6x12)
Cell Size	(mm)	125 X 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

### MECHANICAL CHARACTERISTICS

Cable type, Diameter and Length		4mm <sup>2</sup> , 900mm
		Compatible Type III and Type IV
Dimension A*B*C	(mm)	1580*808*35
Weight	(Kg)	15
Glass, Type and Thickness		High Transmis., Low Iron, Tempered Glass 3mm.
Surface Maximum Load Capacity		60m/s (200kg/sq.m)

### PACKAGING CONFIGURATION

Packing Configuration		2 pcs./box
Quantity/Pallet		50 pcs/pallet
Loading Capacity		320 pcs/20ft or 728pcs/40ft(H)

### ABSOLUTE RATINGS

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

*\*STC Conditions(1000W/m<sup>2</sup>; 1.5 AM and 25°C Cell temperature)*



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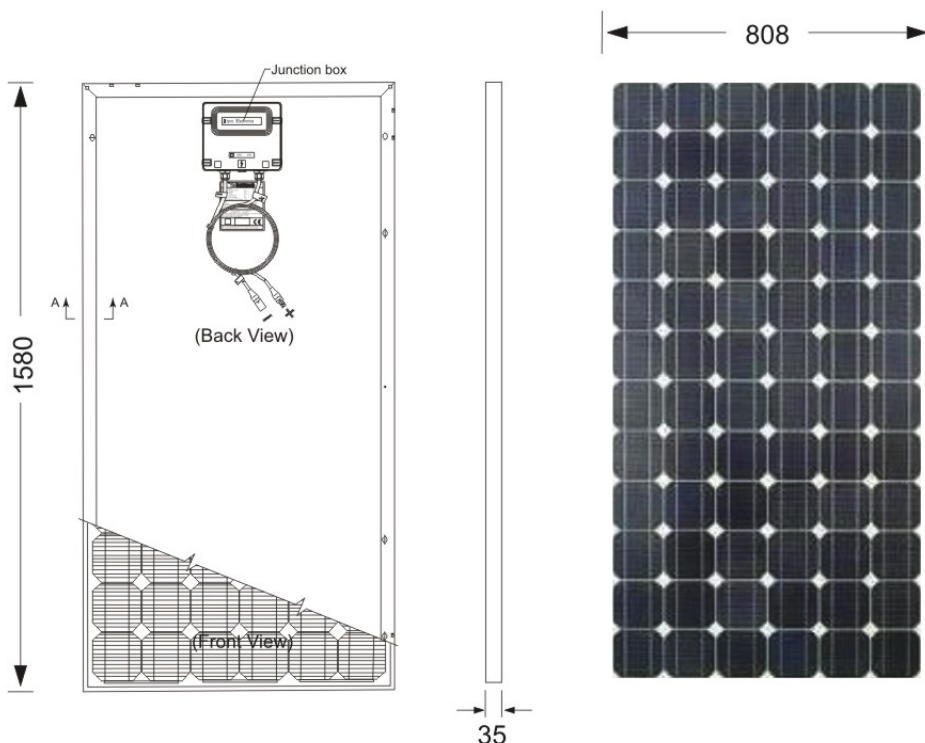
**CERTIFICATIONS**

TUV CERTIFIED  
REGISTERED AS APPROVED FOR  
CLEAN ENERGY COUNCIL OF  
AUSTRALIA GRID-CONNECT  
REBATE PROGRAM



## 190 W Solar Photovoltaic Module Dimensions

Dimensions (mm) A*B*C	1580*808*35
Cable Length (mm)	900
Connectors and Cables Type	4mm <sup>2</sup>



## Warranty

Manufacturing	10 years
Power production	90% : 10 years
	80% : 25 years

\*\*This brochure is correct at 31/12/2010 but subject to change without any notice.  
 \*\*All Modules are manufactured at higher than their nominal wattage rating.  
 \*\*Manufactured by Blue Sun Group in China.