

Solar Photovoltaic Modules

EGS170 to EGS205



Complies with:

IEC 61215:2005 Ed. 2 Crystalline silicon terrestrial photovoltaic modules – Design qualification and type approval.

IEC 61730-1 and IEC 61730-2 Safety Class II, Application Class A (Photovoltaic module safety qualification, requirements for construction, testing and fire rating class C)

IEC 61701: Salt Mist Corrosion Testing

Heavy Mechanical load & Snow Load @ 5400 Pascal.

Manufactured by ISO 9001:2008 Certified Company

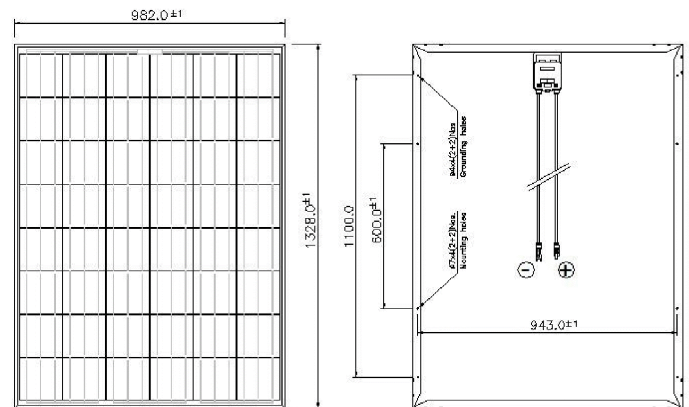
Electrical Characteristics at Standard Test Conditions (STC)

Model	EGS170	EGS175	EGS180	EGS185	EGS190	EGS195	EGS200	EGS205
Watt at Max. Power (Pmax)	170Wp	175Wp	180Wp	185Wp	190Wp	195Wp	200Wp	205Wp
Open Circuit Voltage (Voc)	29.30V	29.30V	29.40V	29.40V	29.60V	29.60V	29.80V	29.80V
Short Circuit Current (Isc)	7.63A	7.85A	8.04A	8.27A	8.45A	8.67A	8.86A	9.08A
Voltage at Max. Power Point (Vmpp)	23.70V	23.70V	23.80V	23.80V	23.90V	23.90V	24.00V	24.00V
Current at Max. Power Point (Impp)	7.18A	7.39A	7.57A	7.78A	7.95A	8.16A	8.34A	8.55A
Module Efficiency	13.04%	13.42%	13.80%	14.19%	14.57%	14.95%	15.34%	15.72%
Tolerance of Pmax	± 3%							
Maximum System Voltage	1000 VDC							
Series Fuse Rating	15A							

Pmax, Voc, Isc, Vmp and Imp tested at STC defined as irradiance of 1000W/m² at AM 1.5 solar spectrum and temperature 25°C.

Mechanical Characteristics

Dimensions	1328mm x 982mm x 42mm
Module area	1.304 m ²
Weight	18.5kg
Frame	Aluminum Alloy
Front	Tempered Glass
Encapsulate	EVA
Back cover	Polyester Back Sheet
Cell Technology	Polycrystalline
Cell Size	156mm x 156mm
Number of Cells	48 (6 x 8)
Junction Box	Protection Class IP65 with 3 Bypass-Diodes



Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	44.77°C
Temperature Coefficient of αIsc	0.0563 %/ °C
Temperature Coefficient of βVoc	-0.3058 %/ °C
Temperature Coefficient of γPmax	-0.4054 %/ °C

Packing Configuration

Container	20'	40'
Pieces Per Pallet	22	22
Pallets Per Container	16	32
Pieces Per Container	352	704

Warranty

- 25 years limited warranty on power output & 5 years product warranty
- 12 years: 90% minimum performance, 25 years: 80% minimum performance.

Typical Characteristics at Different Irradiance Levels

