

Solar Photovoltaic Modules

EGS190 to EGS235



Complies with:

IEC61215:2005 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

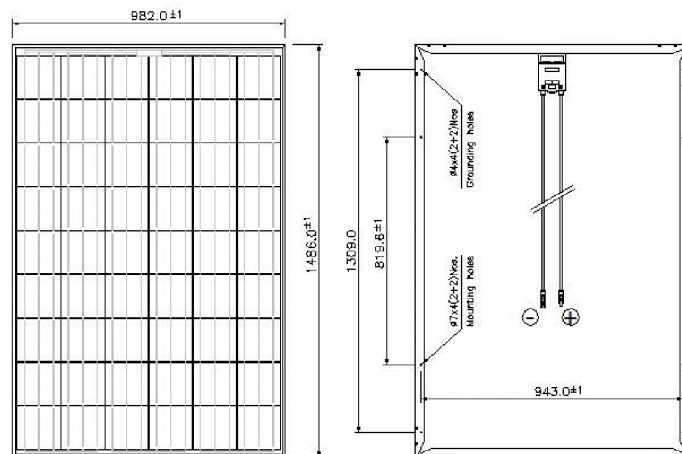
Electrical Characteristics at Standard Test Conditions (STC)

Model	EGS190	EGS195	EGS200	EGS205	EGS210	EGS215	EGS220	EGS225	EGS230	EGS235
Watt at Max. Power (Pmax)	190Wp	195Wp	200Wp	205Wp	210Wp	215Wp	220Wp	225Wp	230Wp	235Wp
Open Circuit Voltage (Voc)	32.80V	32.80V	33.00V	33.00V	33.10V	33.10V	33.20V	33.20V	33.40V	33.40V
Short Circuit Current (Isc)	7.65A	7.85A	8.02A	8.22A	8.36A	8.56A	8.69A	8.89A	9.02A	9.22A
Voltage at Max. Power Point (Vmpp)	26.40V	26.40V	26.50V	26.50V	26.70V	26.70V	26.90V	26.90V	27.10V	27.10V
Current at Max. Power Point (Impp)	7.20A	7.39A	7.55A	7.74A	7.87A	8.06A	8.18A	8.37A	8.49A	8.68A
Module Efficiency	13.02%	13.36%	13.71%	14.05%	14.39%	14.73%	15.08%	15.42%	15.76%	16.10%
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	1486mm x 982mm x 40mm
Module area	1.459 m ²
Weight	20.0kg
Frame	Aluminum Alloy
Front	Tempered Glass
Encapsulate	EVA
Back cover	Polyester Back Sheet
Cell Technology	Polycrystalline
Cell Size	156mm x 156mm
Number of Cells	54 (6 x 9)
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

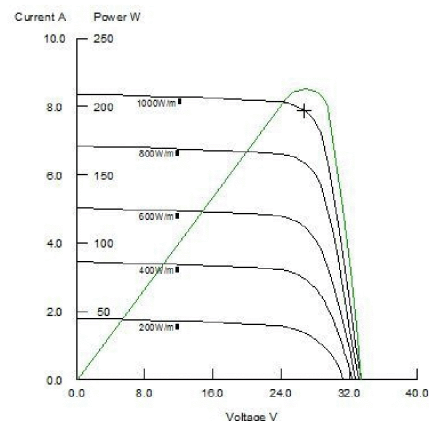
Packing Configuration

Container	20'	40'
Pieces Per Pallet	24	24/20
Pallets Per Container	14	(28*24pcs) + (2*20pcs)
Pieces Per Container	336	712

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



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