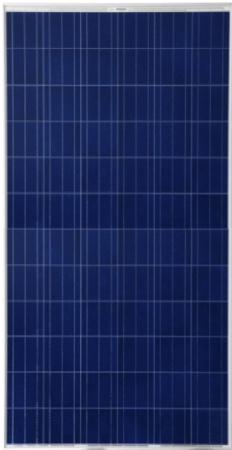


# Solar Photovoltaic Modules

## EGS255 to EGS310



### 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	EGS255	EGS260	EGS265	EGS270	EGS275	EGS280	EGS285	EGS290	EGS295	EGS300	EGS305	EGS310
Watt at Max. Power (Pmax)	255Wp	260Wp	265Wp	270Wp	275Wp	280Wp	285Wp	290Wp	295Wp	300Wp	305Wp	310Wp
Open Circuit Voltage (Voc)	44.30V	44.30V	44.30V	44.40V	44.40V	44.50V	44.50V	44.60V	44.60V	44.60V	44.60V	44.60V
Short Circuit Current (Isc)	7.58A	7.72A	7.85A	7.99A	8.15A	8.27A	8.42A	8.54A	8.69A	8.84A	8.98A	9.12A
Voltage at Max. Power Point (Vmpp)	35.80V	35.80V	35.90V	35.90V	35.90V	36.00V	36.00V	36.10V	36.10V	36.10V	36.10V	36.10V
Current at Max. Power Point (Impp)	7.13A	7.27A	7.39A	7.53A	7.67A	7.78A	7.92A	8.04A	8.18A	8.32A	8.45A	8.59A
Module Efficiency	13.25%	13.51%	13.77%	14.03%	14.29%	14.55%	14.81%	15.07%	15.33%	15.59%	15.85%	16.11%
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/m<sup>2</sup> at AM 1.5 solar spectrum and temperature 25°C.

### Mechanical Characteristics

Dimensions	1960mm x 982mm x 42mm
Module Area	1.925 m <sup>2</sup>
Weight	25.7kg
Frame	Aluminum Alloy
Front	Tempered Glass
Encapsulate	EVA
Back Cover	Polyester Back Sheet
Cell Technology	Polycrystalline
Cell Size	156mm x 156mm
Number of Cells	72 (6 x 12)
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

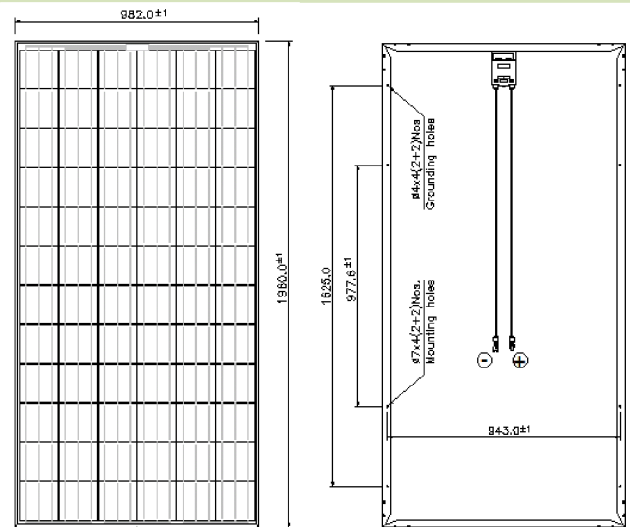
### Packing Configuration

Container size	20'	40'
Pieces Per Pallet	22	22
Pallets Per Container	10	22
Pieces Per Container	220	484

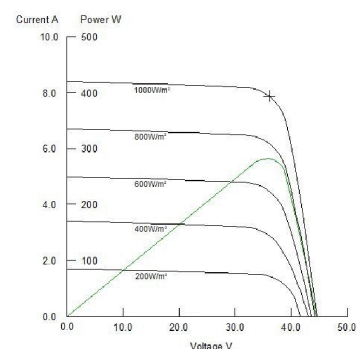
### Warranty

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

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### Typical Characteristics at Different Irradiance Levels



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