

# ESPMC

Polycrystalline Solar Module

**Q High-quality**  
With 60 cells and 3 bypass diodes in power classes from 250 to 280 Wp for grid connected systems.

**\$ Reliable**  
The high quality level of ERA SOLAR guarantees long life-time and high earnings.

**kg Solid**  
An Aluminium hollow-chamber frame on each side combined with low-iron and tempered solar glass ensures high load capacity resistance.

**Wp Performance guarantee**  
ERA SOLAR grants a power guarantee of 90% of nominal power output up to 10 years and 80% up to 25 years.

**+** WATTS POSITIVE TOLERANCE

**10** YEARS PRODUCT WARRANTY

**10** YEARS PERFORMANCE GUARANTEE 90%

**25** YEARS PERFORMANCE GUARANTEE 80%



# ESPMC

Polycrystalline Solar Module

### SPECIFICATIONS

Dimensions	1640 x 992 x 35 mm(A) 1650 x 990 x 35 mm(B)
Weight	17.75 kg
Frame	Aluminium hollow-chamber frame on each side
Glass	Low-iron and tempered glass 3.2 mm
Cells	60 pcs multicrystalline Si-cells (156 x 156 mm)
Cell Embedding	EVA
Back-Foil	FEVE / PET / FEVE / TPE
Junction Box	TÜV certified
Cable	4 mm <sup>2</sup> solar cable 2 x 900 mm
Temperature Range	-40°C ... +85°C
Load Capacity	2400 Pa(IEC 61215),35mm 5400 Pa(IEC 61215),45mm
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C
Product Warranty	10 years
Power Guarantee	10 years 90% 25 years 80%

### CHARACTERISTICS

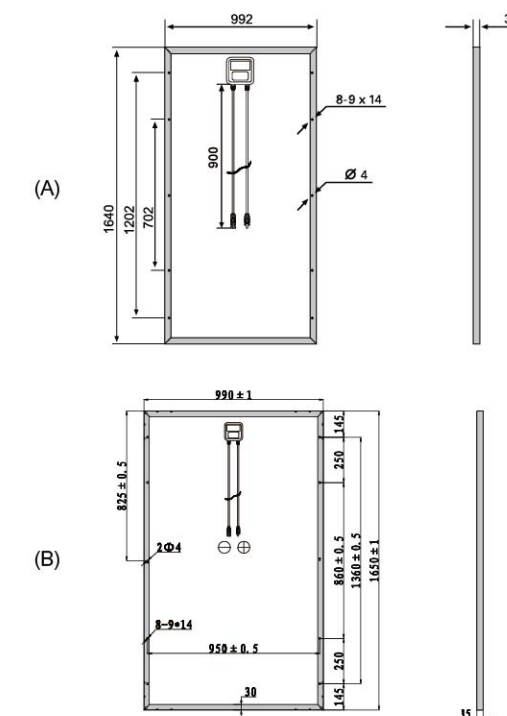
Max. System Voltage	1000V/DC
Temperature-Coefficient I <sub>sc</sub>	+0.08558%/°K
Temperature-Coefficient V <sub>oc</sub>	-0.29506%/°K
Temperature-Coefficient P <sub>mpp</sub>	-0.38001%/°K
NOCT***	45°C

### CERTIFICATES

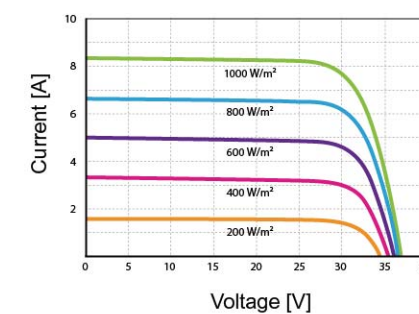
IEC 61215 edition 2 (TÜV Nord)  
(TÜV Rheinland)  
IEC 61730 MCS INMETRO  
CE CEC SALT-MIST  
PID Resistant  
CQC

### INSURANCE

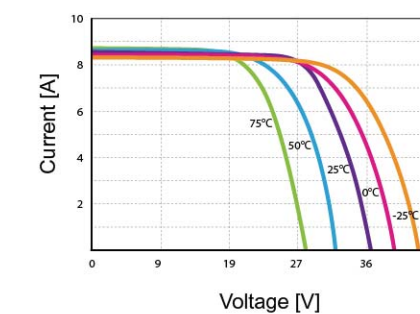
Chubb



### CURRENT-VOLTAGE CURVES



Module characteristics at constant module temperatures of 25°C and variable levels of irradiance



Module characteristics at variable module temperatures and constant module irradiance of 1.000 W/m²

ESPMC TYPE	250	260	265	270	275	280
Power Class	250W	260W	265W	270W	275W	280W
Max. Power Voltage (V <sub>mpp</sub> )* at STC**	30.9V	31.35V	31.6V	31.8V	32V	32.2V
Max. Power Current (I <sub>mpp</sub> ) at STC	8.1A	8.3A	8.4A	8.5A	8.6A	8.7A
Open Circuit Voltage (V <sub>oc</sub> ) at STC	36.6V	37V	37.2V	37.4V	37.6V	37.8V
Short Circuit Current (I <sub>sc</sub> ) at STC	8.75A	8.92A	9.03A	9.14A	9.25A	9.36A
Module Efficiency	15.3 %	16 %	16.2%	16.5%	16.9%	17.2%

\* MPP: Maximum Power Point  
\*\* STC (Standard Test Conditions): 1000W/m², 25°C, AM 1.5  
\*\*\* Normal Operating Cell Temperature

