

Monocrystalline Solar Module

SPECIFICATIONS

Dimensions	1640 x 992 x 35 mm 1640 x 992 x 40 mm 1640 x 992 x 45 mm
Weight	17.75 kg
Frame	Aluminium hollow-chamber frame on each side
Glass	Low-iron and tempered glass 3.2 mm
Cells	60 pcs monocrystalline Si-cells (156 x 156 mm)
Cell Embedding	EVA
Back-Foil	FEVE / PET / FEVE
Junction Box	TÜV certified
Cable	4 mm ² 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	10 years 90%
Guarantee	25 years 80%

CHARACTERISTICS

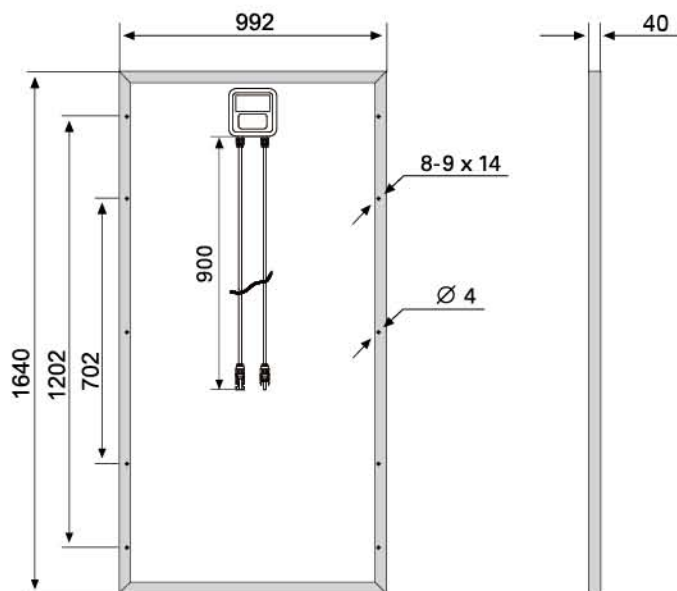
Max. System Voltage	1000V/DC
Temperature-Coefficient I_{sc}	+0.02973%/°K
Temperature-Coefficient V_{oc}	-0.38038%/°K
Temperature-Coefficient P_{mpp}	-0.57402%/°K
NOCT***	45°C

CERTIFICATES

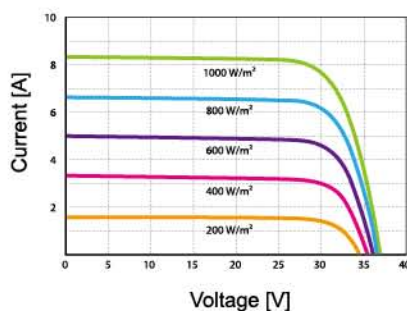
IEC 61215 edition 2 (TÜV Nord)
(TÜV Rheinland)
IEC 61730 MCS INMETRO
CE CEC SALT-MIST
UL1703 CSA
PID Resistant

INSURANCE

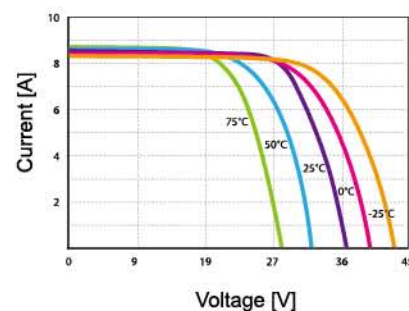
Chubb



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

ESPSC TYPE	250	255	260	265	270	275	280
Power Class	250W	255W	260W	265W	270W	275W	280W
Max. Power Voltage (V_{mpp})* at STC**	30.9V	31.15V	31.35V	31.6V	31.8V	32V	32.2V
Max. Power Current (I_{mpp}) at STC	8.1A	8.19A	8.3A	8.4A	8.5A	8.6A	8.7A
Open Circuit Voltage (V_{oc}) at STC	36.8V	36.8V	37V	37.2V	37.4V	37.6V	37.8V
Short Circuit Current (I_{sc}) at STC	8.75A	8.81A	8.92A	9.03A	9.14A	9.25A	9.36A
Module Efficiency	15.4 %	15.7 %	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