

CERTIFICATION

- TÜV Factory Inspection
- IEC 61215, IEC 61730.1, IEC 61730.2
- Conformity to CE
- Safety class II
- Heavy Snow Load tested 5400 Pa
- Mechanical load tested 7000 Pa
- PV Cycle Member
- ISO 9001: 2008, NP EN ISO 14001: 2004, OSHAS 18001: 2007
- Product rated by Inmetro with energy efficiency A, in accordance with the Brazilian Labeling Program. *
- *Applies for power classes 230, 235 and 240W



THE COMPANY

Specialized in the distribution of PV modules, kits and components, MPrime focuses on flexibility, excellence in service and continuous technological innovation, in order to provide our clients all over the world with the best portfolio, service and warranties. Part of Martifer Solar, MPrime benefits from a wide international experience in solar photovoltaic installations.

MPRIME MODULE STRENGTHS

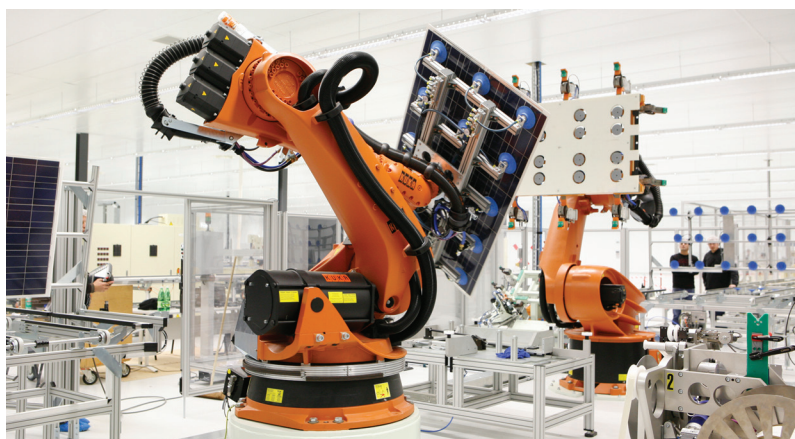
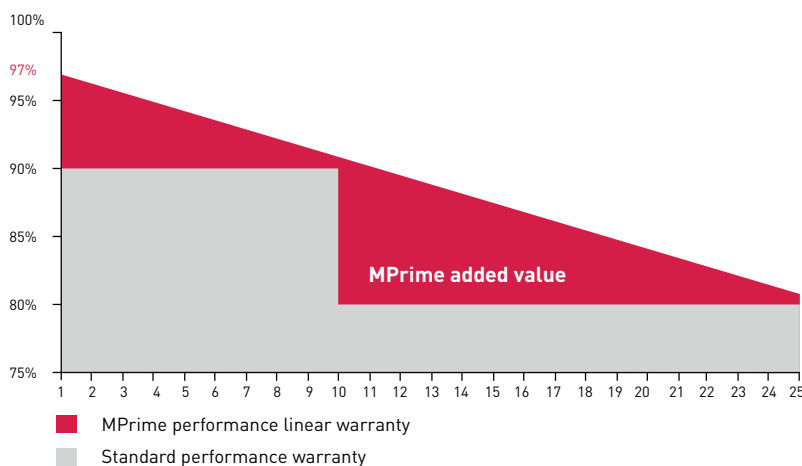
- Efficiency and life performance incremented with the linear warranty.
- Positive power up to 4.99 Watts.
- Its 4 mm glass is suitable for hail and snow climates, and its internal textured surface increases the solar radiation absorption.
- Suitable under extreme mechanical loading pressure of 7000 Pa.
- Produced in a fully automated and robotized PV production line with a yearly installed capacity of 50 MW, extendable to 100 MW, with highly controlled processes and environment, allowing the production of a module with the highest level of quality.
- Manufacturing facility certified according to the Quality, Safety and Environmental standards.

WARRANTY

MPrime ensures its modules with a first-class warranty:

- 25 years performance linear warranty: maximum annual decrease of 0.68% after year number two. Year 25: 80.7%. In accordance with the applicable MPrime Guarantee Conditions in force at the time of purchase and available in MPrime module's warranty certificate.
- Product warranty: 10 years.

BENEFITS OF THE LINEAR WARRANTY



ELECTRICAL SPECIFICATIONS *

Nominal Power (Wp)	P_{MPP}	230	235	240	245	250	255
Positive Power Tolerance	P_{NOM}	[$P_{NOM}-0$; $P_{NOM}+4.99W$]					
MPP Current (A)	I_{MPP}	8.01	8.09	8.15	8.23	8.34	8.48
MPP Voltage (V)	V_{MPP}/U_{MPP}	29.00	29.38	29.52	29.90	30.02	30.29
Open Circuit Voltage (V)	V_{OC}/U_{OC}	37.04	37.13	37.23	37.36	37.60	37.83
Short Circuit Current (A)	I_{SC}	8.39	8.42	8.47	8.60	8.68	8.74
Module Efficiency	η (%)	14.3	14.6	14.9	15.2	15.6	15.8
Maximum System Voltage	V_{SYST}	1000 V					
Maximum Series Fuse Rating		15 A					
NOCT		47.3 °C					
Temperature Coefficients:							
Power	$\gamma(P_{mpp})$	-0.45%/°C					
Voltage	$\beta(V_{oc})$	-0.324% /°C					
Current	$\alpha(I_{sc})$	0.076%/°C					

* Values at Standard Test Conditions STC (air mass AM 1.5, irradiance 1000 W/sqm, cell temperature 25°C)

Tolerance of measured maximum power: $\pm 3\%$

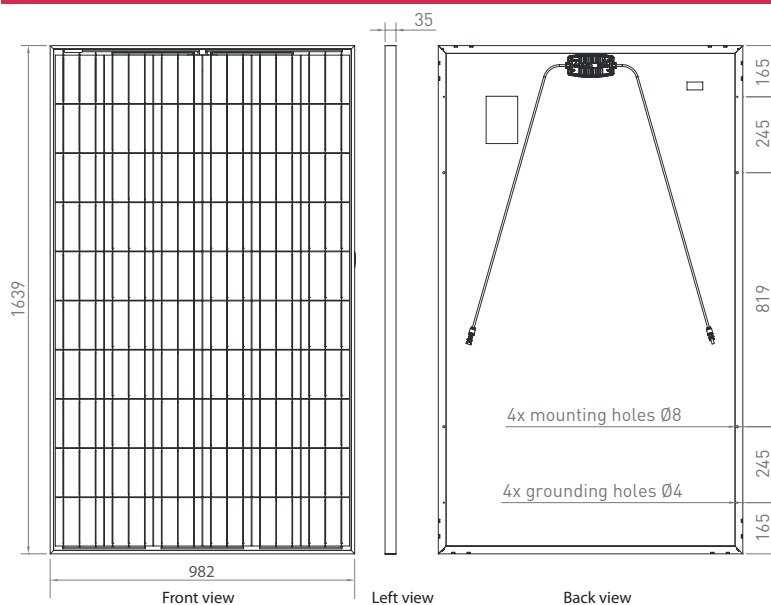
MECHANICAL SPECIFICATIONS

Dimensions	1639 x 982 x 35 mm
Weight	20 kg
Solar Cells	60 Multicrystalline 6 inch cells
Front Cover	Tempered and Textured 4 mm Glass
Encapsulant	EVA (Ethylene Vinyl Acetate)
Back Cover	PPE (Polyester Polyester Primer)
Frame	Silver anodized aluminium
Diodes	3 Bypass Diodes (10.5A)
Junction Box	IP 65 W/ 3 Bypass Diodes
Cable	2 Cables of 0.8 m
Connectors	Weidmüller connector (MC4 compatible) or optional w/ Tyco connector

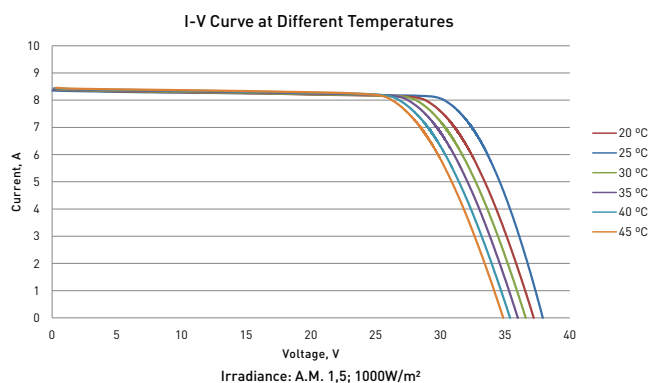
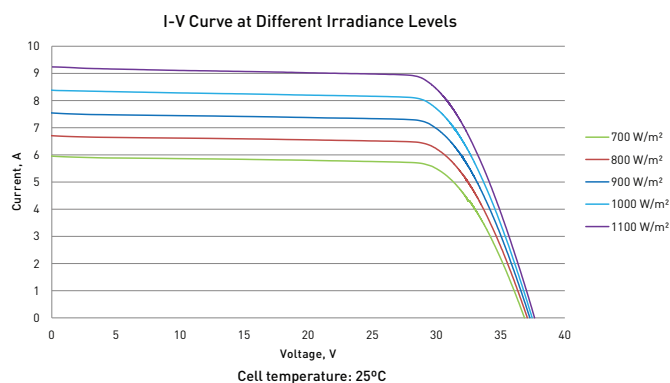
PACKAGING

Modules per pallet	40 modules
Modules per 40 ft container	600 modules

DIMENSIONS (All figures are in mm.)



I-V CURVES



CAUTION: read safety and installation instructions before using the product. (available in WWW.MPRIMESOLAR.COM).

DISCLAIMER: specifications included in this datasheet are subject to change without notice from the company. In case of any conflicts/problems that may arise due to misinterpretation, prevailing conditions are the ones described in the original version (in English).