



WORKING CONDITIONS

Maximum System Voltage	1000 V DC
Operating Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	16A
Safety class	Protection class II
Tested at positive load of	6000 Pa = 610 kg/m ²
Tested at negative load of	2400 Pa
Impact resistance	Hailstone up to 25 mm diameter at maximum speed of 23 m/s
Back ventilation level	min. 50 mm
Minimum roof pitch	10 degrees

MECHANICAL SPECIFICATIONS

Cells	Monocrystalline PERC solar cells 158.75 mm with a configuration of 3x8
Front glass	3.2 mm low iron tempered glass
Back sheet	0.5 mm metal sheet with highly resistant Pural coating
Encapsulation	POE
Junction boxes	3 bypass diodes, IP68 compliant, in potting compound
Connector	QC4.10
Cable	4 mm ² H1Z2Z2-K cable, solar cable length 700 mm
Effective roof coverage	1698 mm x 550 mm
Mounting method	Double seam mounting
Weight	14.0 kg (St.) = 15.0 kg/m ² (installed)

PACKAGING

Packing content	32 modules per pallet
Pallet dimensions (WxHxD)	2050 x 1130 x 750mm

THERMAL CHARACTERISTICS

Temperature Coefficient of	P mpp	-0.363 % /K
Temperature Coefficient of	Voc	-0.276% /K
Temperature Coefficient of	I sc	0.043 % /K

ELECTRICAL CHARACTERISTICS

Nominal Power	P mpp (W)	145	99.2
MPP Voltage	Vmpp (V)	16.5	14.7
MPP Current	Impp (A)	8.8	6.75
Open Circuit Voltage	Voc (V)	20.2	18.4
Short Circuit Current	I sc (A)	9.3	7.19

CE CERTIFICATES

The modules have been tested according to the following PV standards:

IEC 61215-1:2016 (qualification and type approval)
IEC 61730-1:2016 (PV module safety qualification)
EN 13501-5:2016 BROOF (t2) (Fire safety)EN 14782:2006 for self-supporting metal roofing

ATTENTION:
PLEASE READ THE SAFETY AND INSTALLATION booklet BEFORE USING THE PRODUCT..

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(Power Measurement Tolerances ±3% / Other Parameter Tolerances 0,5%)

1 Standard Test Conditions (irradiance 1000 W/m², cell temperature 25 °C, spectrum AM1.5)

2 Nominal Module Operating Temperature (irradiance 800 W/m, air temperature 20 °C, wind 1 m/s, spectrum AM1.5)