



System certifications

- Corporate Quality Management EN ISO 9001:2008
- Environmental Management EN ISO 14001:2004
- Management of Health and Safety at the Workplace BS/OHSAS 18001:2007
- Certificates issued by TÜV Rheinland ID:9105069414

Product certifications

- IEC 61215:2005
- EN 61730-1/-2:2007
- Class of reaction to fire I (UNI 9177)
- Safety class II
- Factory Inspection
- Production "made in EU"
- EC Directives: EMC 2004/108/EC; 2006/95/EC low Voltage
- Disposal and recycling at end-of-life of modules: adherence to COBAT

Guarantees

- 10 year warranty against manufacturing defects*
- 10 year warranty on 90% of the maximum declared power*
- 25 year warranty on 80% of the maximum declared power*

*If used and installed according to technical and operational instructions. V-energy reserves the right to make changes to product specifications. This data sheet corresponds to the requirements of Standard EN50380. Rel. 1 06/2014

Maximum power up to 330 Wp



Specifications

- Use of tempered glass anti-glare with low iron content and high quality for optimum light collection.
- Anodised aluminium black frame which provides solidity and sturdiness to withstand constant loads and climatic stresses such as snow and ice with applied pressure max 5,4kN/m²
- NOCT = 40,6°C
- Temperature range from -40°C a 85°C
- Mechanical load on surface max 550 kg/m²
- Hail impact resistance ø 25mm a 86 km/h

Measures VE272PV EcoPlus High Power

• Length	1979	mm
• Width	998	mm
• Height	45	mm (on request 35 mm)
• Weight	26,5	kg
• Frame	Anodized black aluminium (possibility of SEASIDE QUALICOAT)	
• Glass thickness	4,0	mm

Behavior in standard test conditions STC*

Power class (maximum value)	P _{max}	300 Wp	310 Wp	320 Wp	330 Wp ¹	¹ (Available from 2015)
Efficiency	η	15,19 %	15,70 %	16,20 %	16,71 %	
Open-circuit voltage	V _{oc}	45,77 V	46,25 V	46,38 V	46,51 V	
Short-circuit current	I _{sc}	8,81 A	9,02 A	9,23 A	9,47 A	
Maximum power voltage	V _{mp}	35,94 V	36,48 V	36,81 V	37,32 V	
Current at maximum power	I _{mp}	8,35 A	8,54 A	8,72 A	8,87 A	

* Note - Under standard conditions: Irradiation 1000 W/mq - Module temperature = 25°C - Air mass AM 1,5
Measurement tolerance solar simulator class A (- / + 2%) in accordance with IEC 60904-9

NOCT conditions behavior**

Power class (maximum value)	P _{max}	220,5 Wp	230,6 Wp	240,8 Wp	248,0 Wp
Open-circuit voltage	V _{oc}	41,93 V	42,41 V	42,58 V	42,67 V
Short-circuit current	I _{sc}	6,64 A	6,85 A	7,11 A	7,3 A
Maximum power voltage	V _{mp}	34,56 V	35,1 V	35,46 V	35,94 V
Current at maximum power	I _{mp}	6,38 A	6,57 A	6,79 A	6,9 A

**Note - Under NOCT conditions: Irradiation 800 W/mq - Module temperature = 40,6°C - Air mass AM 1,5

Materials used

Cells per module	72
Cell type	3BB Polycrystalline
Cell size	156 mm x 156 mm
Front side	Anti-glare tempered glass (EN 12150)

Thermal characteristics

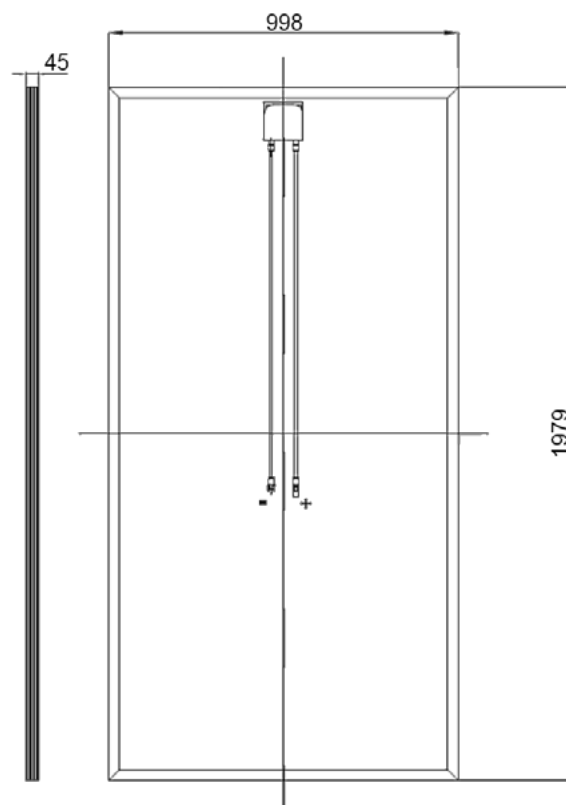
NOCT	40,6 +/- 2°C
TC I _{sc}	3,1857 mA/°C
TC U _{oc}	-0,1192 V/°C
TC P _{mpp}	-0,40 %/°C

Parameters for optimal integration into the system

Maximum system voltage class II	1000 V
Load capacity of reverse current	15 A
High snow loads (standard IEC 61215)	max 5,4 kN/m ²
Number of bypass diodes	3

More Info

Sorting tolerance P _{max}	0/+9,99 W
Type of protection (IP)	IP65
Connector	MC4
Cable	Solar cable 4mm ² - Length 1m



SEZIONE A - A'

