



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

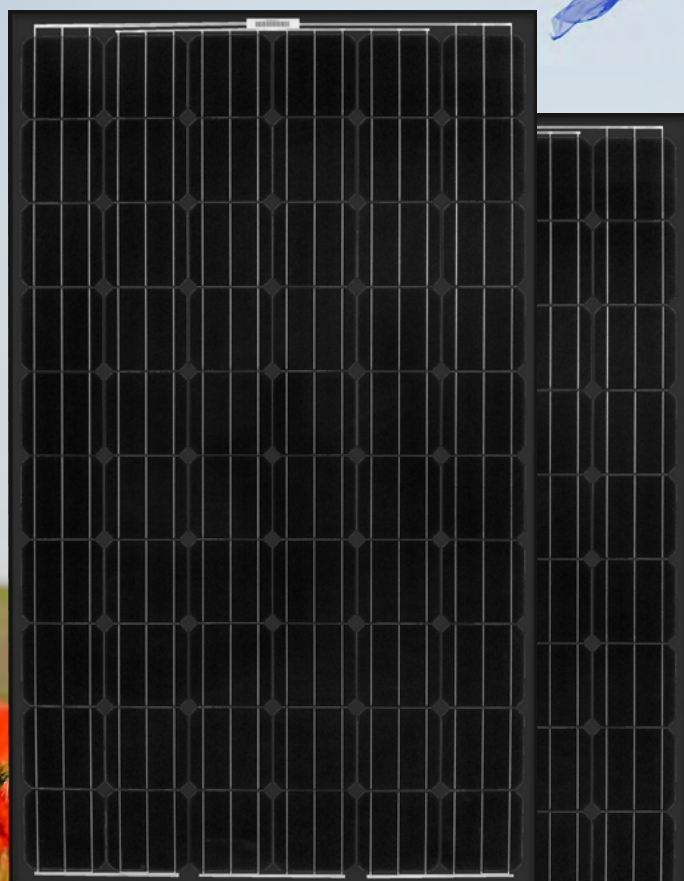
- IEC 61215:2005
- EN 61730-1/-2:2007
- Class of reaction to fire I (UNI 9177)
- Safety class II
- Factory Inspection
- Production "made in EU"
- EC Directives: EMC 2004/108/EC; 2006/95/EC low Voltage
- Disposal and recycling at end-of-life of modules: adherence to COBAT

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

When quality is synonymous with adaptability!



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 = 44,0°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 VE360PV Eco Mono Total Black

• Length	1650	mm
• Width	990	mm
• Height	35	mm
• Weight	18,5	kg
• Frame	Anodized black aluminium (possibility of SEASIDE QUALICOAT)	
• Glass thickness	3,2	mm

Behavior in standard test conditions STC*

Power class (maximum value)	P_{max}	250 Wp	255 Wp	260 Wp
Efficiency	η	15,30 %	15,61 %	15,92 %
Open-circuit voltage	V_{oc}	38,35 V	38,52 V	38,65 V
Short-circuit current	I_{sc}	9,07 A	9,21 A	9,33 A
Maximum power voltage	V_{mp}	30,47 V	30,57 V	30,68 V
Current at maximum power	I_{mp}	8,33 A	8,43 A	8,54 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}	184,5 Wp	188,4 Wp	192,1 Wp
Open-circuit voltage	V_{oc}	35,19 V	35,33 V	35,47 V
Short-circuit current	I_{sc}	7,51 A	7,63 A	7,66 A
Maximum power voltage	V_{mp}	27,79 V	27,91 V	28,01 V
Current at maximum power	I_{mp}	6,64 A	6,75 A	6,86 A

**Note - Under NOCT conditions: Irradiation 800 W/mq - Module temperature = 44,0°C - Air mass AM 1,5

Materials used

Cells per module	60
Cell type	3BB Monocrystalline
Cell size	156 mm x 156 mm
Front side	Anti-glare tempered glass (EN 12150)

Thermal characteristics

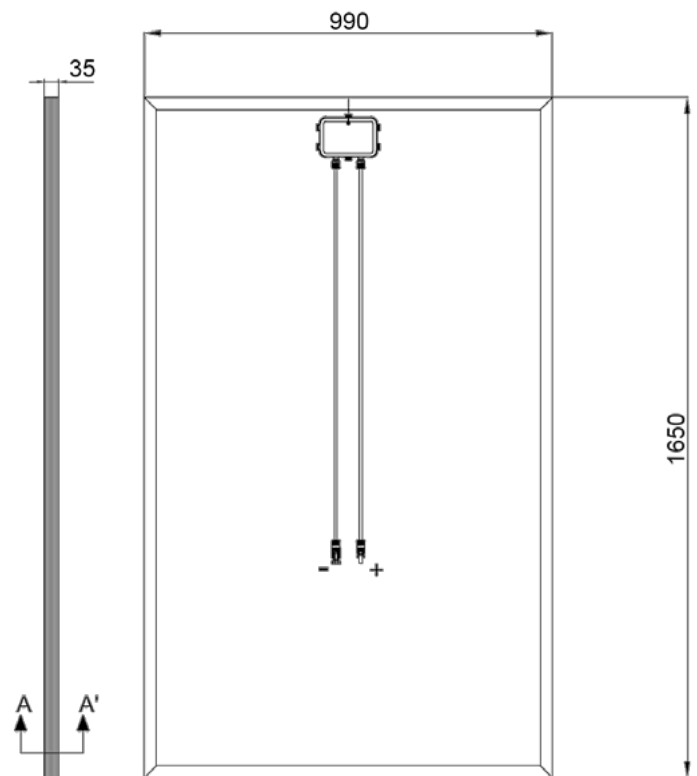
NOCT	44,0 +/-2°C
TC I_{sc}	4,894 mA/°C
TC U_{oc}	-0,118 V/°C
TC P_{mpp}	-0,44 %/°C

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/+4,99 W
Type of protection (IP)	IP65
Connector	MC4
Cable	Solar cable 4mm ² - Length 1m



SEZIONE A - A'

