



**Power range:**  
from 270 to 285 Wp



**Positive tolerance:**  
from 0 to +4,99 Wp



**Reduced weight:**  
optimization of raw materials



**Thermal characteristics:**  
NOCT 45°C



**Frame:**  
anodised aluminium



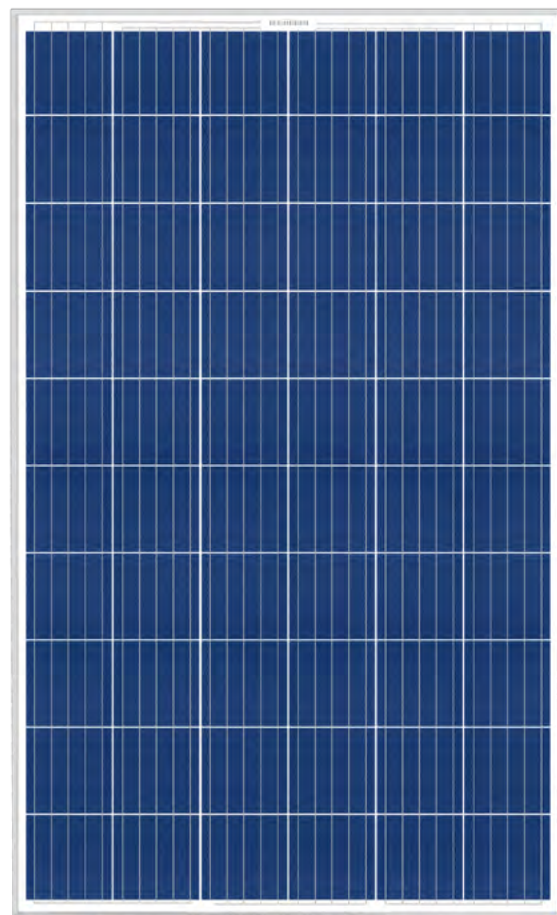
**Fire resistance:**  
class of reaction to fire 1 (UNI 9177)



**Warranty:**  
12 year against manufacturing defects



**Cell:**  
5BB Polycrystalline, standard color



## Specifications

- Use of tempered glass anti-glare with low iron content and high quality for optimum light collection.
- Anodised aluminium frame which provides solidity and sturdiness to withstand constant loads and climatic stresses such as snow and ice with applied pressure max 5,4kN/m<sup>2</sup>
- NOCT = 45°C
- Temperature range from -40°C a 85°C
- Mechanical load on surface max 550 kg/m<sup>2</sup>
- Hail impact resistance ø 25mm a 86 km/h

## Measures VE160PV

• Length	1650 mm
• Width	992 mm
• Height	35 mm
• Weight	18 kg
• Frame	Anodized aluminium (possibility of SEASIDE QUALICOAT)
• Glass thickness	3,2 mm

## 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 TUV Rheinland ID:9105084080

## Product certifications

- IEC 61215:2005
- EN 61730-1/-2:2007
- Class of reaction to fire I (UNI 9177)
- Anti-corrosion saline IEC 61701
- Anti-corrosion ammonia IEC 62716
- PID Free - Classe A
- Safety class II
- Factory Inspection
- Production "made in Italy"
- EC Directives: EMC 2004/108/EC; 2006/95/EC low Voltage

## Guarantees

- 12 year warranty against manufacturing defects\*
- 25 year linear warranty to 82.5% of the maximum declared power\*

\*If used and installed according to technical and operational instructions. The Company reserves the right to make changes to product specifications. This data sheet corresponds to the requirements of Standard EN50380. Rel.4 03/2021

## Behavior in standard test conditions STC\*

Power class (maximum value)	$P_{max}$	270 Wp	275 Wp	280 Wp	285 Wp
Efficiency	$\eta$	16,50 %	16,80 %	17,11 %	17,42 %
Open-circuit voltage	$V_{oc}$	39,24 V	39,65 V	40,04 V	40,43 V
Short-circuit current	$I_{sc}$	9,10 A	9,17 A	9,23 A	9,29 A
Maximum power voltage	$V_{mp}$	32,15 V	32,55 V	32,95 V	33,34 V
Current at maximum power	$I_{mp}$	8,44 A	8,49 A	8,53 A	8,58 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

## Materials used

Cells per module	60
Cell type	5BB Polycrystalline
Cell size	156,75 mm x 156,75 mm
Front side	Anti-glare tempered glass (EN 12150)

## 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 <sup>2</sup>
Number of bypass diodes	3

## Thermal characteristics

NOCT**	45 +/- 2°C
TC $I_{sc}$	0,043 %/°C
TC $U_{oc}$	-0,295 %/°C
TC $P_{mpp}$	-0,387 %/°C

\*\*Note - Under NOCT conditions: Irradiation 800 W/mq - Module temperature = 45°C - Air mass AM 1,5

## More Info

Sorting tolerance $P_{max}$	0/+4,99 W
Type of protection (IP)	IP65
Connector	MC4
Cable	Solar cable 4mm <sup>2</sup> - Length 1m

