GRUPPOSTG
VGS®
ITALIAN PV SOLUTIONS

54 cell polycrystalline transparent module
VE154PVTT

POWER RANGE
from 220 to 240 Wp

CELL TECHNOLOGY
Polycrystalline silicon

GUARANTEES
20 year warranty against manufacturing defects;
30 year linear warranty to 82,5% of the maximum declared power*

OUR COMPANY VISION

High quality, certified and controlled raw materials, combined with “Made in Italy” are the distinctive features of our products.

Constant company research and development have always increased our standards both in terms of performance and in terms of architectural integration.

The combination of aesthetics and functionality is a fundamental point in a society that is increasingly attentive to the approach of the product with the context.

Product certifications:

- CEI EN / IEC 61215 (2016)
- CEI EN / IEC 61730-1/2 (2016)
- Factory Inspection
- Class of reaction to fire I (UNI 9177)
- Anti-corrosion saline IEC 61701
- Anti-corrosion ammonia IEC 62716
- PID Free - A Class
- Production “made in Italy”
- EC Directives: EMC 2004/108/EC; 2006/95/EC low Voltage

Company certifications :

- Corporate Quality Management EN ISO 9001:2015
- Environmental Management EN ISO 14001:2015
- Management of Health and Safety at the Workplace EN ISO 45001:2018
- Certificates issued by AMTIVO ITALIA S.r.l.

*If used and installed according to technical and operational instructions. The Company reserves the right to make changes to product specifications.

AVAILABLE POWERS [1] [2]

Maximum power[3]	P_{max} [W]	240	235	230	225	220
Maximum power voltage	V_{mp} [V]	27,87	27,58	27,28	26,97	26,67
Current at maximum power	I_{mp} [A]	8,61	8,52	8,43	8,34	8,25
Open-circuit voltage	V_{oc} [V]	39,1	33,85	33,68	33,45	33,38
Short-circuit current	I_{sc} [A]	9,01	9,01	8,92	8,82	8,79
Efficiency	Eff. [%]	14,34	14,04	13,74	13,44	13,14

[1] Electrical values measured under STC conditions: Irradiation 1000 W / m2 - Module temperature = 25 ° C - Air mass AM 1.5 - Wind speed 1 m / s.
[2] Measurement tolerance of Pmp, Vmp, Imp, Voc, Isc values equal to (- / + 3%) with A class solar simulator in accordance with IEC 60904-9.
[3] Sorting tolerance Pmax : 0/+4.99 W

CONSTRUCTION PROPERTIES

Module size [mm]	1667 x 1004 x 35
Cell technology	polycrystalline silicon
Cell size [mm]	157 mm x 157 mm
Cell number	54
Front side	Anti-glare tempered solar glass (EN 12150)
Back side	Transparent PET
Transparency	17,8 %
Frame type	Aluminum
Frame finish	Silver anodized
Cables type	Solar cables with a section of 4.0 mm2
Cable length [mm]	1000
Connector type	MC4
Number of bypass diodes	3
Module weight [kg]	18

PARAMETERS FOR INTEGRATION INTO THE SYSTEM

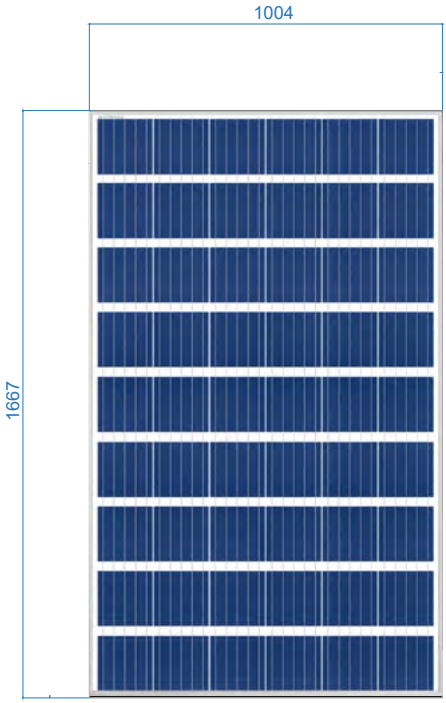
Maximum system voltage [V]	1000
Class of protection against electrical leakage	Class II
Load capacity of reverse current [A]	15
Maximum permissible load in pressure/traction [Pa]	5400 / 2400
Nominal operating temperature range [°C]	-45/+85
Maximum allowable relative humidity [%]	85
Hail impact resistance [Km/h] [4]	84,6

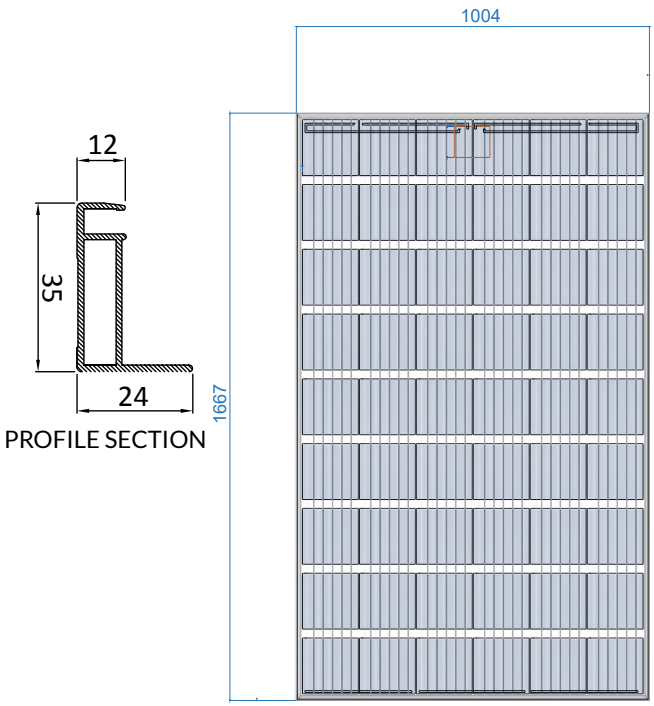
[4] Test carried out with a sphere with a diameter of 25 mm according to IEC 61730.

THERMAL CHARACTERISTICS [5]

NMOT [°C]	45,9
Temperature coefficient of electric current Alfa [%/°C]	0,0555
Temperature coefficient of electrical voltage Beta [%/°C]	-0,2769
power temperature coefficient Gamma [%/°C]	-0,3781

[5] NMOT value tested under the following conditions:
1. Air temperature Te, NOCT = 20 °C;
2. GNOCT irradiance = 800 W/m2; Wind speed 1 m/s;
3. Module placed on 37° inclined surface, therefore no thermal convection on the underside.





PROFILE SECTION

Rev. 4 - 04/2025

The Company reserves the right to make changes to product specifications. This data sheet corresponds to the requirements of Standard EN50380.

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