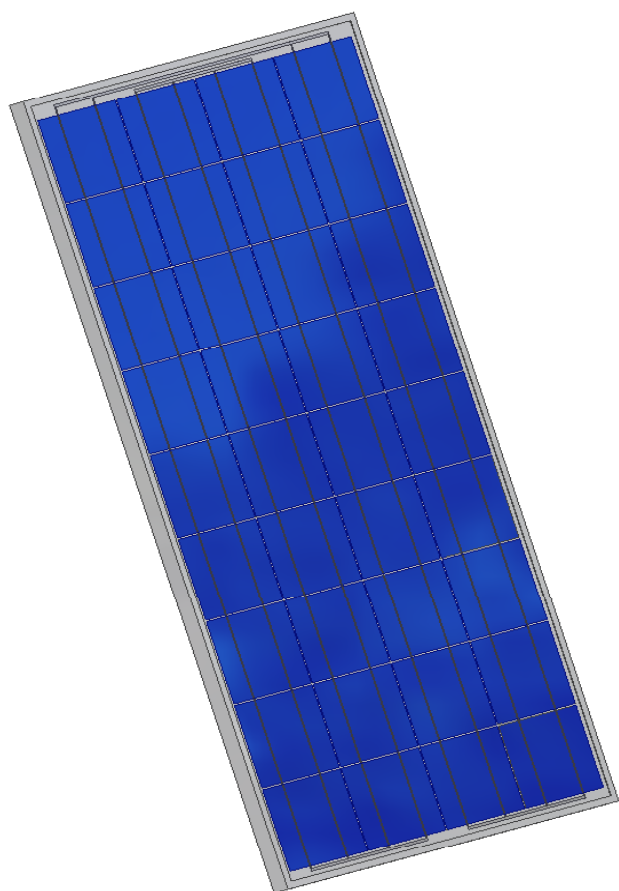


Photovoltaic modules AP 36 ST series **36 cells – multicristalline silicon**

Wp: 125-130-135-140-145

Output power always exceeds nominal value. Power tolerance: -0/+3%



Characteristics and performance

- Weather resistance
- Reliable design
- Easy and safe installation
- High efficiency

Product warranty

- 5 year product warranty *

Performance warranty

- 12 year warranty at 90% of the nominal power*
- 25 year warranty at 80% of the nominal power *

Quality & Environmental

- Quality System in compliance with UNI EN ISO 9001:2008
- Environmental Managing System in compliance with UNI EN ISO 14001:2004

*If properly installed and used according to the available instructions for storing, mounting, usage and maintenance

Product certifications



Safety Class II



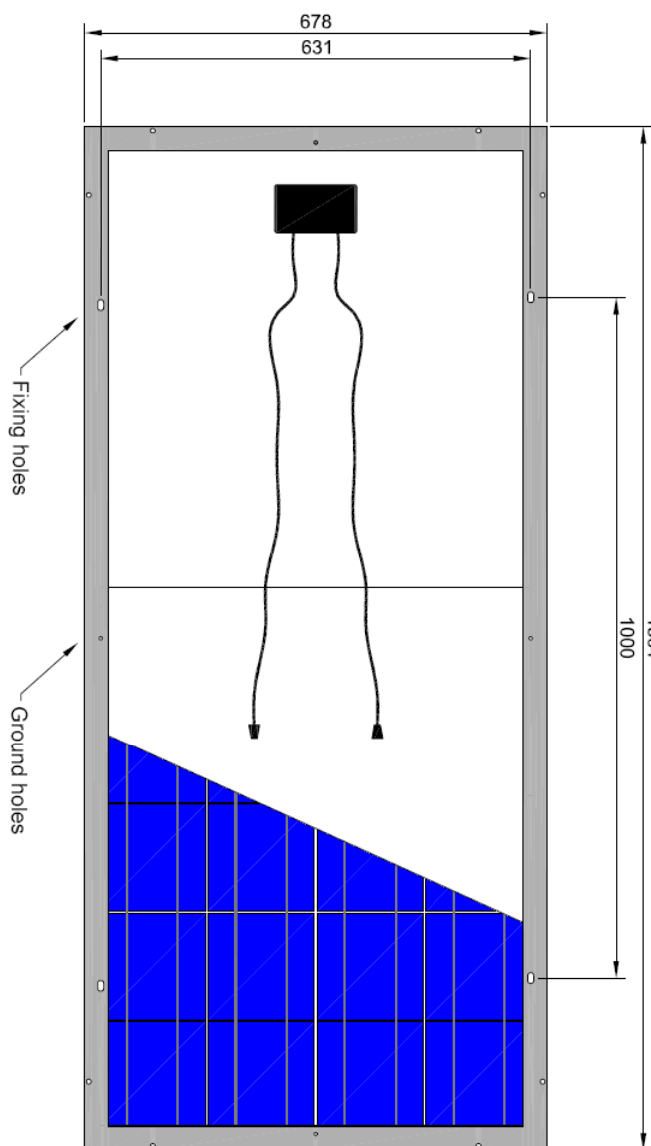
Certification number
10-PPV-0009409/01-TIC

IEC 61215:2006-08
IEC 61730-2:2007-11

Photovoltaic Modules AP 36 ST series

Performance in standard conditions (STC): 1000 W/m²; Temperature 25 °C; AM 1.5

| Model | ST | 125 | 130 | 135 | 140 | 145 |
|--|----------------------|------------|-------|-------|-------|-------|
| Maximum Power | P _{max} (W) | 125 | 130 | 135 | 140 | 145 |
| Power tolerance | % | - 0 / + 3% | | | | |
| Maximum Power Tension | V _{mpp} (V) | 16,78 | 17,09 | 17,39 | 17,67 | 17,94 |
| Maximum Power Current | I _{mpp} (A) | 7,51 | 7,67 | 7,82 | 7,98 | 8,14 |
| Open Circuit Tension | V _{oc} (V) | 22,05 | 22,16 | 22,27 | 22,39 | 22,50 |
| Short Circuit Current | I _{sc} (A) | 7,95 | 8,11 | 8,26 | 8,42 | 8,58 |
| Fill Factor | % | 71,90 | 72,93 | 73,90 | 74,80 | 75,66 |
| Cell Efficiency | % | 14,60 | 15,00 | 15,60 | 16,00 | 16,60 |
| Module efficiency | % | 12,4 | 12,9 | 13,4 | 13,9 | 14,4 |
| Maximum voltage | (V _{DC}) | 1000 | | | | |
| NOCT | (°C) | 45+ / - 2 | | | | |
| P _{max} temperature coefficient | %/ °C | -0,47 | | | | |
| I _{sc} temperature coefficient | %/ °C | 0,05 | | | | |
| V _{oc} temperature coefficient | %/ °C | -0,36 | | | | |



Design

| | |
|--------------|--|
| Front | High transparency 4mm tempered glass |
| Cells | 36 cells multicristallin silicon 156 x 156mm |
| Encapsulant | EVA (Etylene - Vinyle Acetate co/polymer) |
| Back | White polymeric laminate |
| Profile | Anodized Aluminum 6060 |
| Junction Box | IP 65 (IEC 60529) - Class II (DIN VDE 0106) |
| Wires | n°2 unipolar wires 4mm ² , rapid clutch, 1m |

Dimensions

| | | |
|-----------------------|------|------|
| Length | (mm) | 1504 |
| Width | (mm) | 678 |
| Profile Thickness | (mm) | 45 |
| Weight | (Kg) | 14 |
| Front Glass Thickness | (mm) | 4 |

Holes

| | |
|----------------|--|
| Mounting holes | 4 holes (9mm x 16mm) at a distance of 1000mm - Centered on the long side |
| Ground holes | 4 holes (5mm) - Centered on each side |
| Drain holes | 2 drain holes (7mm) on each side 100mm from the corners |

Product available from 2010 - Made in Italy -

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