

Solar power module alfasolar 120P-6



For stand-alone and grid-connected applications

- **120 Wp - Excellent performance**
Low power tolerance $\pm 3\%$
- **Reliability**
20 years power warranty and 2 years product warranty
- **High stability**
Concave chamber profile-framework and 3mm security glass
- **Certified**
IEC 61215 / Production ISO 9001:2000
- **Easy assembly**
Big junction box for easy parallel connection
- **Polycrystalline cells**
High performance on a compact size level

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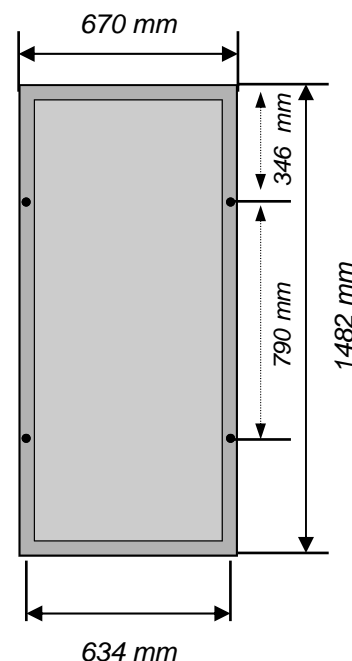
Solar module alfasolar 120P-6

The solar power module alfasolar 120P-6 uses the new highly efficient solar cells. Its high performance on a compact size level guarantees fast and cost-effective installation.

Our proven junction box design provides reliable electrical connections for metric and non-metric conduit or cable fittings and enables series or parallel array connections. The neatly worked-up concave chamber profile-framework without any bolted connections and a bevelled closely mounted border helps to keep the panel clear from dirt and snow. Therefrom a high energy yield is guaranteed even at extreme environmental conditions.

The panel is handed over with a product warranty of 2 years and performance warranty of 20 years. A very narrow module output selection permits serial connection with low connection losses. Every single panel is measured during the production process. Flash data are available on request.

It is manufactured environment friendly in Sweden by usage of hydropower generated current to its greatest extend. ISO 9001:2000 certification ensures that our crystalline manufacturing facility uses proven manufacturing and quality processes. IEC 61215 certification ensures product performance and reliability.



| Electrical Daten | 125Wp | 130 Wp | 135Wp |
|-----------------------------|--|---------------------------------|--------------------------|
| Short circuit current I_K | 8,26 A | 8,30 A | 8,35 A |
| Open circuit voltage U_L | 21,97 V | 21,97V | 21,97 V |
| Power voltage MPP U_{MPP} | 17,18 V | 17,22 V | 17,27 V |
| Power current MPP I_{MPP} | 7,28 A | 7,58 A | 7,82 A |
| Power output per face | 125,89 Wp/m ² | 130,92 Wp/m ² | 135,96 Wp/m ² |
| Physical Data | | Ambient conditions | |
| Dimensions | 1482x670x34 mm | Permissible system temperature | -40 - +85 °C |
| Weight | 10,5 kg | Max. permissible system voltage | 860 V |
| Cell | 36 polycrystalline solar cells 156 x 156 mm ² | Max. area compression | 2400 N/m ² |
| Junction box | IP65 with 2 bypass diodes | Hailstorm/Hailstones | Ø 25 mm /v = 23 m/s |
| Vertical hole distance | 790 mm | Twisting | 1,2° |
| Hole size | M6 | Humidity at 85 °C | 85% relativ |
| Temperature coefficients | | | |
| α [I_{sc}] | +2,3 mA/ °C | γ [P_{MPP}] | - 0,43% / °C |
| β [V_{oc}] | -76,32 mV/°C | NOCT | 47 +/- 2 °C |



Polycrystalline high-quality solar cells

Concave chamber profile-framework

