

40 Watt Photovoltaic Module

EVERLIGHT ELM-40P

EVERLIGHT ELM-40P photovoltaic modules offer industry-leading performance, durability, and reliability for electrical power requirements. An anti-reflective coating provides a uniform blue color and increases the absorption of light in all weather conditions. Common applications include RVs, cabins, solar power stations, pumps, beacons, and lighting equipment. Designed to withstand rigorous weather conditions, a junction box is also provided for easy electrical connections in the field, making EVERLIGHT modules the perfect combination advanced technology and reliability.

| TYPICAL ELECTRICAL CHARACTERISTICS | |
|------------------------------------|--|
| Maximum power | 40W |
| Voltage at max. power | 17.2 V |
| Current at max. power | 2.33A |
| Open circuit voltage | 21.6V |
| Short circuit current | 2.57A |
| Temperature coefficient of Isc | (0.065±0.015)%/°C |
| Temperature coefficient of Voc | -(160±20)mV/°C |
| Temperature coefficient of power | -(0.5±0.05)%/°C |
| Max. oper. voltage | 1000V |
| Operating temperature | -40/+85 °C |
| Resistance | 227g steel ball down from 1m height and 60m/s wind |

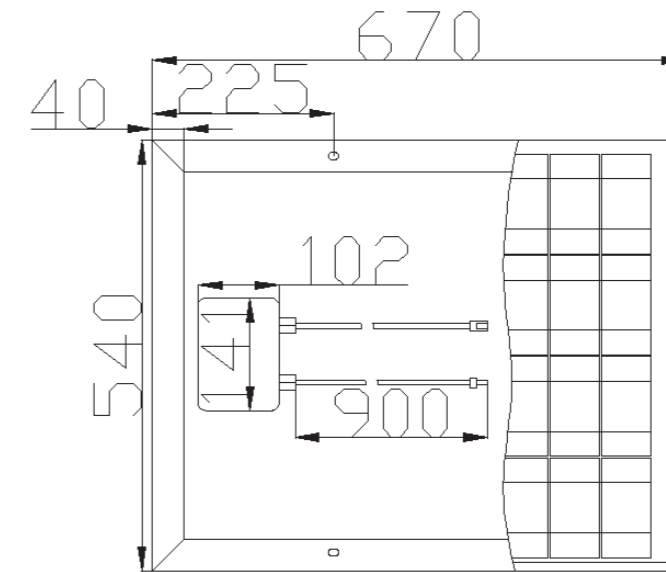
| PERFORMANCE | |
|-------------------|---|
| Model | ELM-40P |
| Rated power | 40W |
| Tolerance | ±5% |
| Module efficiency | 14.0% |
| Nominal voltage | 12V |
| Warranty | Pm is not less than 90% in 10 years and 80% in 25 years |

| MECHANICAL CHARACTERISTICS | |
|----------------------------|---|
| Dimensions(mm) | 670×540×40 |
| Overall tolerances | ±3mm |
| Weight(Kg) | 4.3 |
| Frame | Clear anodized aluminum alloy type 6063T6. Silver Universal frame. |
| Solar Cells | 36 cells (125 x 62.5mm) configured geometrically in a 9 x 4 matrix connected in series. |

Test conditions: @STC 1000W/m², AM1.5, 25°C

Product Standards: CE certified, TÜV according to IEC 61215 expected by Oct. 2007.

Module Diagram



Graph

