

90W Rollable Solar Charger

The **P3Solar 90W Rollable Solar Charger**, is designed for use with off-the-shelf 12V Batteries and Solar Charge Controllers. The 90W is compact, rolling up to a 5 inch diameter by 18.75 inch height, and is lightweight and flexible making it easy to transport and store.

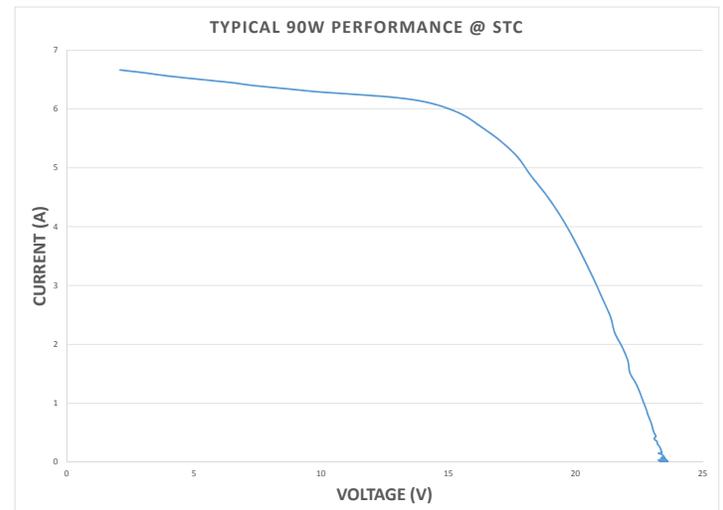
90W Product Specifications

| Electrical Characteristics @ STC* | |
|--|----------------------|
| Rated Power (watts) | 90 |
| Rated Voltage at MPP (VDC) | 16.4 |
| Rated Current at MPP (amp) | 5.5 |
| Open Circuit Voltage (volts) | 23 |
| Short Circuit Current (amps) | 6.4 |
| Physical Characteristics | |
| Rolled Dimensions, mm | 127 Dia x 476 |
| Rolled Dimensions, inches | 5 Dia x 18.75 |
| Deployed Dimensions, mm | 476 x 1975 x 1.0 |
| Deployed Dimensions, inches | 18.75 x 77.75 x 0.04 |
| Max. Deployed Thickness at J-Box, mm (in.) | 12 (0.5) |
| Weight, kg(lb) | 1.36 (3.0) |
| Power to Weight Ratio, watt/kg(watt/lb) | 66 (30) |
| Thermal Characteristics | |
| Temperature Coefficient for Power (%/°C) | -0.43 |
| Temperature Coefficient for Voltage (%/°C) | -0.38 |
| Temperature Coefficient for Voc (%/°C) | -0.33 |
| Temperature Coefficient for Isc (%/°C) | -0.03 |
| Cell Temperature Operating Range (°C) | -40 to 85 |
| Voltage, Open Circuit @ -40°C (volts) | 28 |
| Voltage, V _{mpp} @ 50°C (volts) | 14.5 |
| Voltage, V _{mpp} @ 75°C (volts) | 13.28 |

*Electrical Characteristics- tested at Standard Test Conditions (STC): irradiance level 1000W/m², spectrum AM 1.5 and cell temperature 25° C. Tolerance +/-15%. The performance of this product may increase by up to ~5% after the first several hours of exposure to sunlight.



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