

100W Portable Solar Charger

The P3-100 is a Military grade Solar Charger derived from years of supporting troops in the battlefield. The P3-100 has been tested to the MIL-STD-810G series of tests and has been approved for deployment in austere operating environments. At 40w/pound, the P3-100 enables manpack applications requiring lightweight, flexible, and reliable power.

P3-100W Product Specifications

Electrical Characteristics @ STC*	
Rated Power (watts)	100
Rated Voltage at MPP (VDC)	22
Rated Current at MPP (amp)	4.6
Open Circuit Voltage (volts)	29.5
Short Circuit Current (amps)	5.5
Physical Characteristics	
Folded Dimensions, mm	261 x 318 x 32
Folded Dimensions, inches	10.25 x 12.5 x 1.25
Deployed Dimensions, mm	1333 x 1003 x 1.0
Deployed Dimensions, inches	52.5 x 39.50 x 0.04
Max. Deployed Thickness at J-Box, mm (in.)	12 (0.5)
Weight, kg(lb)	1.13 (2.5)
Power to Weight Ratio, watt/kg(watt/lb)	88.5 (40)
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)	37
Voltage, Vmpp @ 50°C (volts)	19.8
Voltage, Vmpp @ 75°C (volts)	17.6

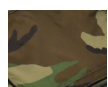
*Electrical Characteristics- tested at Standard Test Conditions (STC): irradiance level 1000W/m2, spectrum AM 1.5 and cell temperature 25° C. Tolerance +/-15%. The performance of this product may increase by up to ~5% after the first several hours of exposure to sunlight.



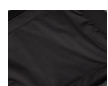
Dessert Camo
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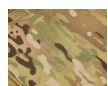
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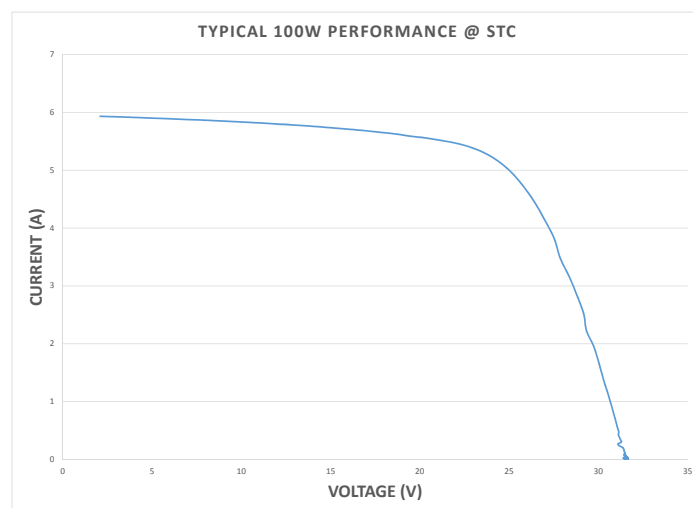
Woodland Camo
PN 18020



Black
PN 18025



Multicam
PN 18026



4500 E. Speedway Blvd. Suite 50
Tucson, AZ 85712 USA
520-775-1390
sales@p3solar.com