

# 50W Portable Solar Charger

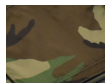
The P3-50 is a Military grade Solar Charger derived from years of supporting troops in the battlefield. The P3-50 has been tested to the MIL-STD-810G series of tests and has been approved for deployment in austere operating environments. At 33w/pound, the P3-50 enables manpack applications requiring lightweight, flexible, and reliable power.

## P3-50W Product Specifications

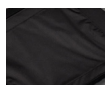
Electrical Characteristics @ STC*	
Rated Power (watts)	50
Rated Voltage at MPP (VDC)	22
Rated Current at MPP (amp)	2.3
Open Circuit Voltage (volts)	29.5
Short Circuit Current (amps)	2.75
Physical Characteristics	
Folded Dimensions, mm	254 x 318 x 20
Folded Dimensions, inches	10 x 12.5 x 0.8
Deployed Dimensions, mm	1086 x 625 x 1.0
Deployed Dimensions, inches	42.75 x 25.625 x 0.04
Max. Deployed Thickness at J-Box, mm (in.)	12 (0.5)
Weight, kg(lb)	.68 (1.5)
Power to Weight Ratio, watt/kg(watt/lb)	73.5 (33)
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.

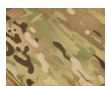
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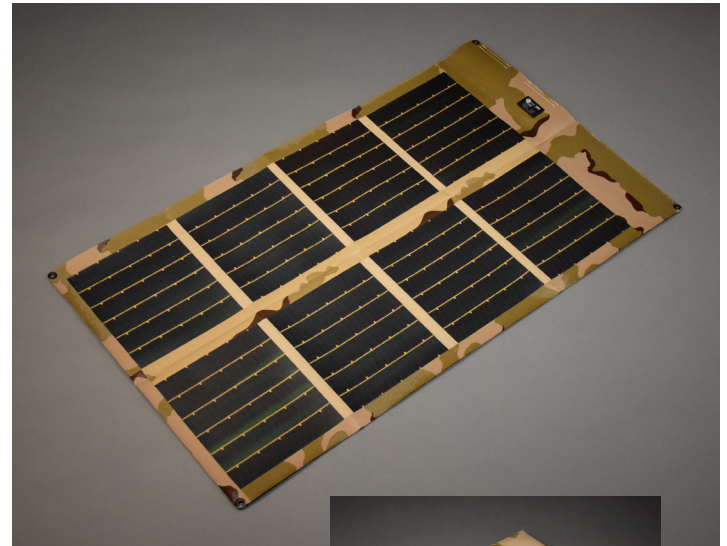
Woodland Camo  
PN 18014



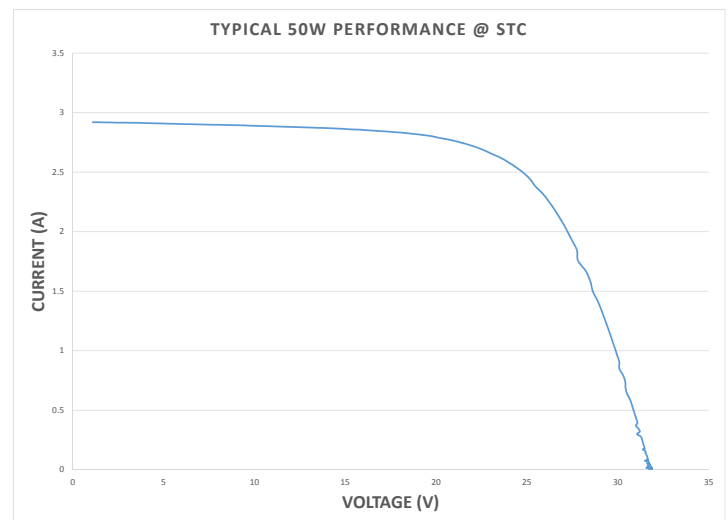
Black  
PN 18015



Multicam  
PN 18016



Desert Camo  
PN 18013



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