

UnatSolar

Power & Communication beyond borders

The UnatSolar 75watt is a Military grade Solar Charger derived from years of supporting troops in the battlefield. The UnatSolar-75w 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 Unatsolar-50 enables manpack applications requiring lightweight, flexible, and reliable power.

75W Product Specifications

Electric Characteristics @ STC*

Rated Power (watts)	75
Rated Voltage at MPP (VDC)	16,5
Rated Current at MPP (Amp)	4,6
Open Circuit Voltage (volts)	22
Short Circuit Current (Amps)	5,5

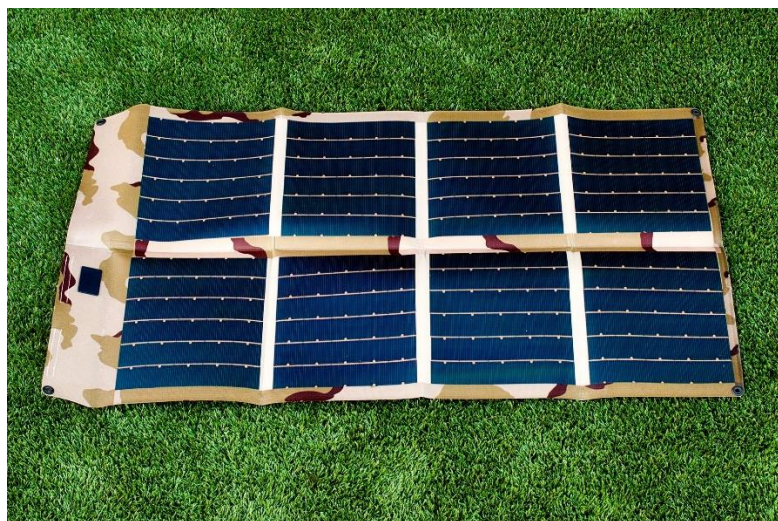
Physical Characteristics

Folded Dimensions, mm	261x318x24
Folded Dimensions, inches	10,25x12,5x0,9
Deployed Dimensions, mm	1636x635x1
Deployed Dimensions, inches	64,4x25x0,04
Max Deployed Thickness at J-box, mm/In	12 (0,5)
Weight, KG (LB)	0,85 (1,875)
Power to weight Ratio, watt/KG/LB)	88 (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 Voc (%/°C)	0,03
Temperature Operation Range °C	-40 to 85
Voltage, Open Circuit @ -40°C (Volts)	27,8
Voltage, Vmpp @ 50°C (Volts)	14,85
Voltage, Vmpn @ 75°C (Volts)	13,37

Rating tolerance +/-15%



Available in: Black, Desert color, GreenCamo, Multicam

*Electrical Characteristics at Standard Test Conditions (STC): irradiance level 1000W/m², spectrum AM 1.5 and cell temperature 25C. The thin film solar material in this module can increase in power with exposure to sunlight. Initially expose the module to sunlight for 3-4 days for best measurement results.



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