



## 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/m<sup>2</sup>, 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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