

# 80W Portable Solar Charger

The MPF-80 is a Military grade Solar Charger derived from years of supporting troops in the battlefield.

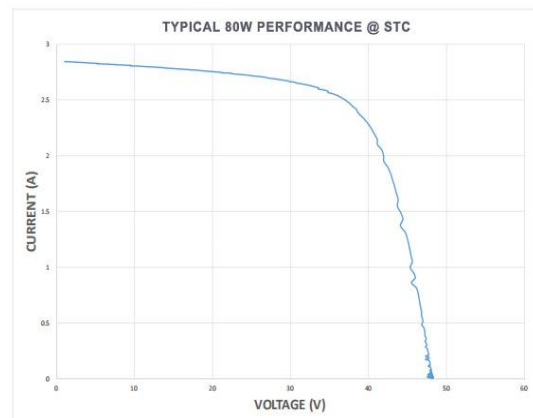
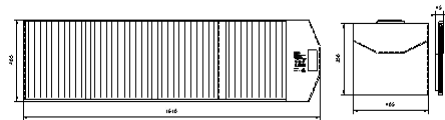
The MPF-80 has been tested to the MIL-STD-810G series of tests and has been approved for deployment in austere operating environments.

At 40w/pound, MPF-80 enables manpack applications requiring lightweight, flexible, and reliable

## MPF-80 Product Specifications

Electrical Characteristics@STC*	
Rated Power(watts)	80
Rated Voltage at MPP(VDC)	18
Rated Current at MPP(AMP)	4.44
Open Circuit Voltage(Volts)	21
Short Circuit Current(AMPS)	4.89
Physical Characteristics	
Folded Dimensions	405*350*45mm
Folded Dimension	16.0*13.8*1.78in
Depbyed Dimensions	1630*405*5mm
Depbyed Dimensions	64.1*15.9*0.2in
Max Depbyed Thickness at J-Box,mm(in)	12(0.5)
Weight,kg(lb)	3.2(6.5)
Power to Weight Ratio,watt/kg(watt/lb)	25(13)
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)	56
Voltage,Vmpp @ -40°C (volts)	29.7
Voltage,Vmpp @ 75°C (volts)	26.75

\*Electrical Characteristics-tested at standard Test Conditions(STC):irradiance level 100w/m<sup>2</sup>,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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