

40W Portable Solar Charger

The MPF-40 is a Military grade Solar Charger derived from years of supporting troops in the battlefield.

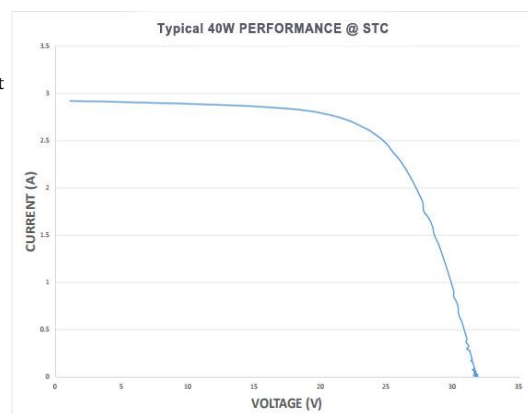
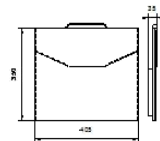
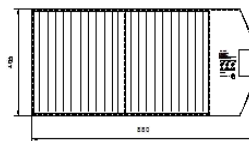
The MPF-40 has been tested to the MIL-STD-810G series of tests and has been approved for deployment in austere operating environments.

At 33w/pound, MPF-40 enables manpack applications requiring lightweight, flexible, and reliable

MPF-40 Product Specifications

Electrical Characteristics@STC*	
Rated Power(watts)	40
Rated Voltage at MPP(VDC)	18
Rated Current at MPP(AMP)	2.22
Open Circuit Voltage(Volts)	21
Short Circuit Current(AMPS)	2.44
Physical Characteristics	
Folded Dimensions	405*350*35mm
Folded Dimension	16.0*13.8*1.4in
Depbyed Dimensions	890*405*5mm
Depbyed Dimensions	35.0*15.9*0.2in
Max Depbyed Thickness at J-Box,mm(in)	12(0.5)
Weight,kg(lb)	1.9(4.2)
Power to Weight Ratio,watt/kg(watt/lb)	21(11)
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)	39
Voltage,Vmpp @ -40°C (volts)	22.5
Voltage,Vmpp @ 75°C (volts)	20

*Electrical Characteristics-tested at standard Test Conditions(STC):irradiance level 100w/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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