

# Dynamo PLUS Power Pack

The P3Solar Dynamo Plus Power Pack is a lightweight, portable charging solution utilizing a 12V16Ah Lithium Polymer Battery and 20W Portable Solar Panel. The battery pack has a built-in vehicle jump start capability and can power most electronic devices including; cell phones, smartphones, tablets, notebook computers, satellite communication equipment and much more. The Dynamo Plus' convenient carry bag holds the Battery, Solar Panel, DC Converter and the following accessories: Wall Charger, Car Charger, Jumper Cables and Notebook Connectors (8 sizes supported).

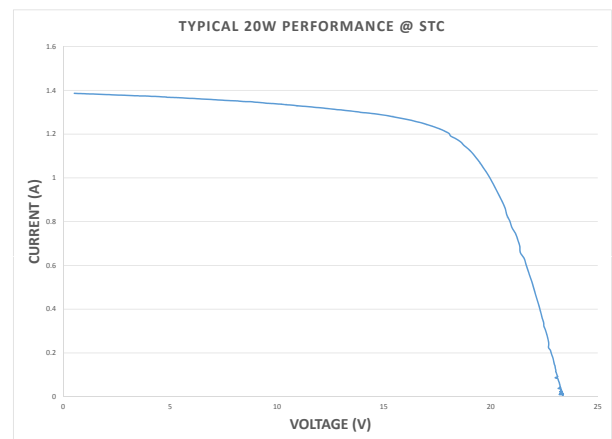
## DYNAMO PLUS Product Specifications

Battery Pack Electrical Characteristics	
Nominal Battery Voltage	12
Usable Ah	8
Outputs	
USB Devices	5V/2A
12V Devices	12V/2A
Notebooks	19V/3.5A
Car Jump Start - Start/Peak	200/400
Battery Pack Physical Characteristics	
Dimensions, mm	158.75 x 76.2 x 25.4
Dimensions, inches	6.25 x 3 x 1
Weight, kg(lb)	~1 (~2)
Barrel Adapter Physical Characteristics	
QTY 8 (A-H) Outside (OD) & Inside (ID) Dimensions	OD / ID (mm)
A (Black)	6.0 / 1.0
B (Green)	6.3 / 3.0
C (White)	5.5 / 2.5
D (Blue)	5.5 / 2.1
E (Yellow)	5.5 / 1.7
F (Yellow)	4.8 / 1.7
G (Yellow)	4.0 / 1.7
H (Pink)	3.5 / 1.3
Solar Panel Electrical Characteristics @ STC*	
Rated Power (watts)	20
Rated Voltage at MPP (VDC)	18
Rated Current at MPP (amp)	1.2
Open Circuit Voltage (volts)	24
Short Circuit Current (amps)	1.4
Solar Panel Physical Characteristics	
Folded Dimensions, mm	152 x 318 x 13
Folded Dimensions, inches	6 x 12.5 x 0.5
Deployed Dimensions, mm	559 x 635 x 1
Deployed Dimensions, inches	22 x 25 x 0.04
Max. Deployed Thickness at J-Box, mm (in.)	12 (0.5)
Weight, kg(lb)	0.27 (0.60)
Power to Weight Ratio, watt/kg(watt/lb)	74 (33)
Solar Panel 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)	30
Voltage, Vmpp @ 50°C (volts)	16.2
Voltage, Vmpp @ 75°C (volts)	14.4
Carry Bag Physical Characteristics (Packed)	
Carry Bag Dimensions, mm	228.6 x 368.3 x 63.5
Carry Bag Dimensions, inches	9 x 14.5 x 2.5
Total Dynamo Plus Weight kg(lb)	1.18(2.6)

\*Electrical Characteristics- tested at Standard Test Conditions (STC): irradiance level 1000W/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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