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**: (~11.2)

**Barrel Adapter Physical Characteristics**

<table>
<thead>
<tr>
<th>QTY (A-H)</th>
<th>OD / ID (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (Black)</td>
<td>6.0 / 1.0</td>
</tr>
<tr>
<td>B (Green)</td>
<td>6.3 / 3.0</td>
</tr>
<tr>
<td>C (White)</td>
<td>5.5 / 2.5</td>
</tr>
<tr>
<td>D (Blue)</td>
<td>5.5 / 2.1</td>
</tr>
<tr>
<td>E (Yellow)</td>
<td>4.8 / 1.7</td>
</tr>
<tr>
<td>F (Yellow)</td>
<td>4.0 / 1.7</td>
</tr>
<tr>
<td>H (Pink)</td>
<td>3.5 / 1.3</td>
</tr>
</tbody>
</table>

**Solar Panel Electrical Characteristics @ STC**

- **Rated Power (watts)**: 20
- **Rated Voltage at MPP (VDC)**: 18
- **Rated Current at MPP (amps)**: 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 3-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 (%/oC)**: -0.43
- **Temperature Coefficient for Voltage (%/oC)**: -0.38
- **Temperature Coefficient for Voc (%/oC)**: -0.33
- **Temperature Coefficient for Isc (%/oC)**: -0.03
- **Cell Temperature Operating Range (°C)**: 40 to 85
- **Voltage, Open Circuit @ -40°C (volts)**: 30
- **Voltage, Vmp @ 50°C (volts)**: 16.2
- **Voltage, Vmp @ 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/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.*