



SOLAR STIK®

Category: Power Management

24VDC Power Hub 2400

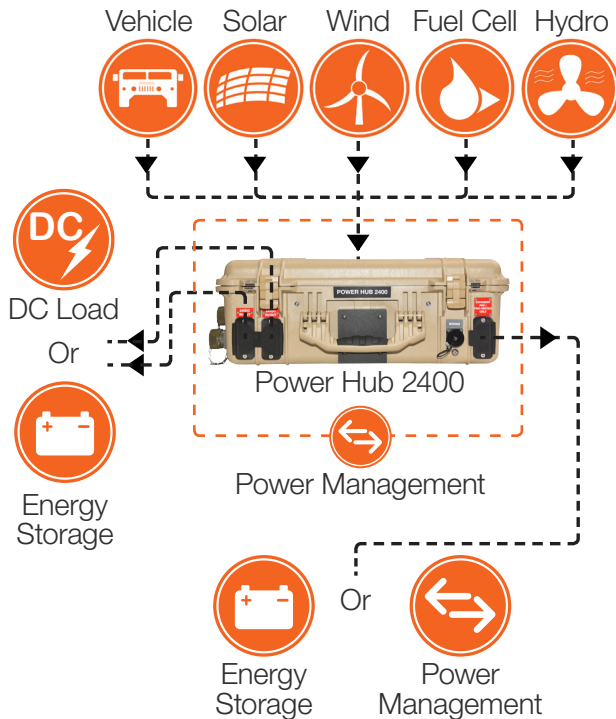
Item # 20-0302204

Let the DC Power In

Manage multiple DC power sources with one device. The 24VDC Power Hub 2400 acts like a funnel for managing input power from solar, wind, vehicular, hydroelectric, fuel cell, and other DC sources. The Power Hub has built-in maximum power point tracking (MPPT) solar charge controllers to efficiently regulate photovoltaic (PV) power for use in a battery-based system. Simply connect the power generation source to the Power Hub, and it takes care of the rest.

How a Power Hub Works

The Power Hub accepts input from DC power sources. It distributes this power to batteries for energy storage, and/or to other power management devices in systems that can deliver AC power. In a DC-only battery-based system, the Power Hub can power the load directly.



Features

- Input up to 2.4 kW of photovoltaic (PV) power
 - Optimized for use with PAM panels and Solar Stik's
 - Includes multiple MPPT charge controllers to maximize power for each individual PV array
- NATO connection port
- Fully automatic operation
- Intuitive controls
- Stacks vertically with all Pelican 16XX cases
- Tested to MIL-STD-810G & has US Army Safety Confirmation for worldwide deployment





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General

Operating Voltage	20–30 VDC programmable
User Interface	LCD and push button menu controls
Internal Cooling	(2) internal fans
Case	Pelican 1670
Warranty	1-year materials and workmanship

Charge Controller Specifications (@77 °F/25 °C)

Maximum PV Input Voltage	57 VDC
Maximum PV Input Current	100 A (@ 24 V nominal)
Maximum PV Power	800 W per charge controller, 2400 W total
Efficiency	97% (typical)
Charging Stages	Bulk, absorb, float and equalize
Charge Control Method	Maximum Power Point Tracking (MPPT)

Safety

Circuit Protection	<ul style="list-style-type: none"> Charger protected against reverse polarity and transient voltage surges Polarized connectors External grounding lug
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Connections

Input(s)	<ul style="list-style-type: none"> (6) 24 VDC 30 A (per charge unit) solar inputs (Amphenol bayonet CB2-22-2SC) (3) 24 VDC 100 A (total) Inter-Connect*
Output(s)	<ul style="list-style-type: none"> (1) 24 VDC 100 A PRO-Verter/Expander Pak Inter-Connect* (1) Remote monitoring (RJ45)
Input/Output(s)	<ul style="list-style-type: none"> (2) 24 VDC 100 A load/bus Inter-Connect* (1) NATO receptacle

*Deltran 224-0061-BK

Environmental

Operating Temperature	-58 °F to 104 °F (-50 °C to 40 °C), derated operation up to 167 °F (75 °C)
Operating Humidity	10% to 90% RH noncondensing

Weights and Dimensions (L x W x H)

Weight	45 lb (20.4 kg)
Dimensions	24.39 x 19.36 x 8.79 in (62.0 x 49.2 x 22.3 cm)

Includes

- (1) 5-foot Inter-Connect Cable

Inter-Connect Cable can be stored inside case



Case Color Options

Tan	Black
	Silver
	Orange
	Yellow
	OD Green
Standard Color	Optional Colors



Recommended Components and Accessories



Solar Expedition 450W
Item # 11-1000020



Solar Remote Monitoring Kit
(RMK) LAN
(Mounts to faceplate)
Item # 20-0702601

