



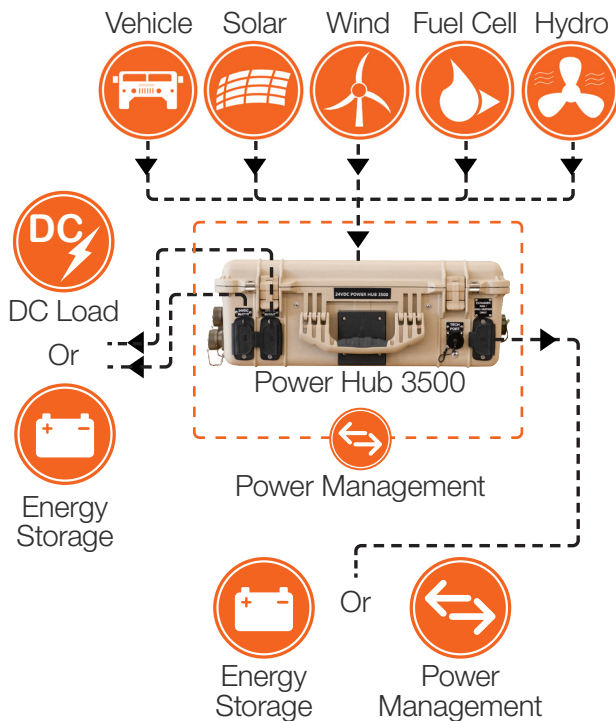
SOLAR STIK®

Let the DC Power In

Control multiple DC power sources with one device. The 24VDC Power Hub 3500 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 handles the rest.

How a Power Hub Works

The Power Hub accepts input from DC power sources. It processes and 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.



Category: Power Management

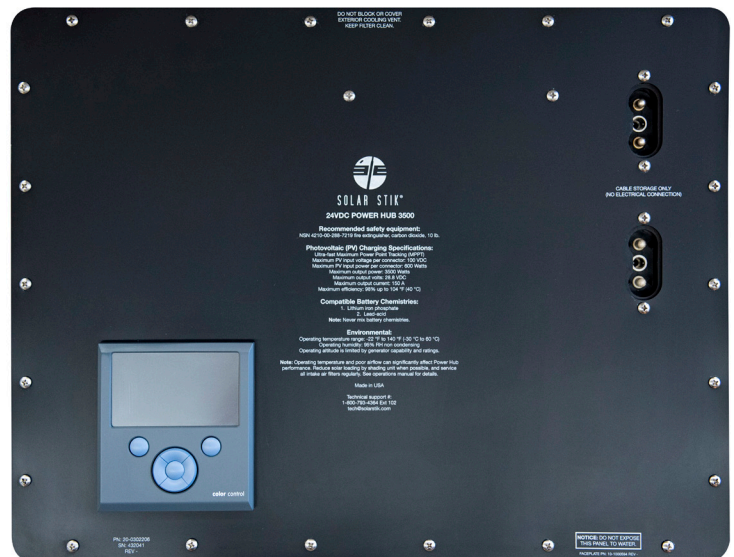
24VDC Power Hub 3500

Item # 20-0302206



Features

- Input up to 3.5 kW of photovoltaic (PV) power
 - Optimized for use with rugged, portable solar panels
 - 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 series cases
- Built and designed to MIL-STD-810H





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General

Operating Voltage	20–30 VDC programmable
User Interface	Graphical LED and push-button menu controls
Internal Cooling	Forced convection with (2) internal fans
Case	Pelican 1600
Warranty	1-year materials and workmanship

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

Maximum PV Input Voltage	100 V per connection
Maximum PV Input Current	180 A
Maximum PV Power	1166 W per charger controller, 3500 W total
Efficiency	98% (typical)
Charging Voltage	30.6 V max (programmable)
Charging Stages	Bulk, absorb, float, equalize
Charge Control Method	Maximum Power Point Tracking (MPPT)

Safety

Overcurrent Protection	Output short-circuit protected
Overdischarge Current Limit	120 A
Overtemperature Protection	Yes
Reverse Polarity	Input and output protected

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

Inter-Connect Cable can be stored inside case

**Deltran 224-0061-BK*

Environmental

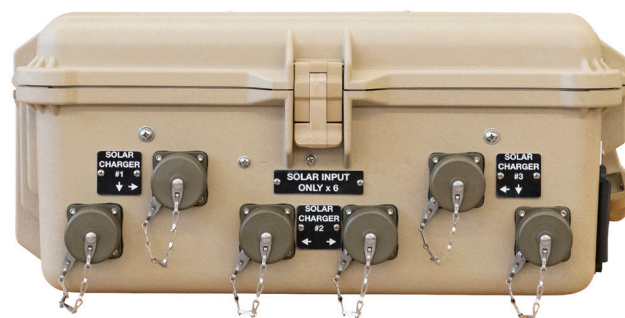
Operating Temperature	-22 °F to 140 °F (-30 °C to 60 °C) Full rated output to 104 °F (40 °C)
Operating Humidity	95% RH noncondensing

Weights and Dimensions (L x W x H)

Weight	40.6 lb (18.4 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



Recommended Components and Accessories



Solar Expedition 450W Kit
Item # 16-0800105



Solar Venture 320W Kit
Hard Case Item # 19-1000010
Soft Case Item # 19-1000011

