



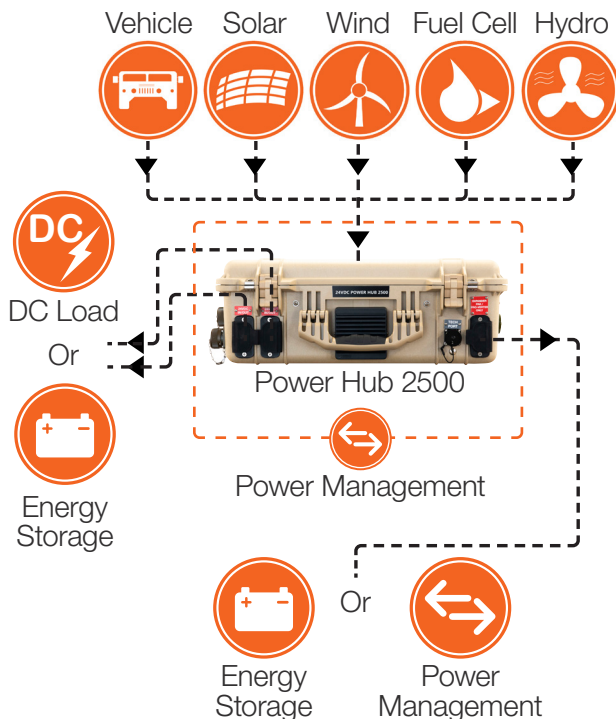
SOLAR STIK®

### Let the DC Power In

Control multiple DC power sources with one device. The 24VDC Power Hub 2500 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

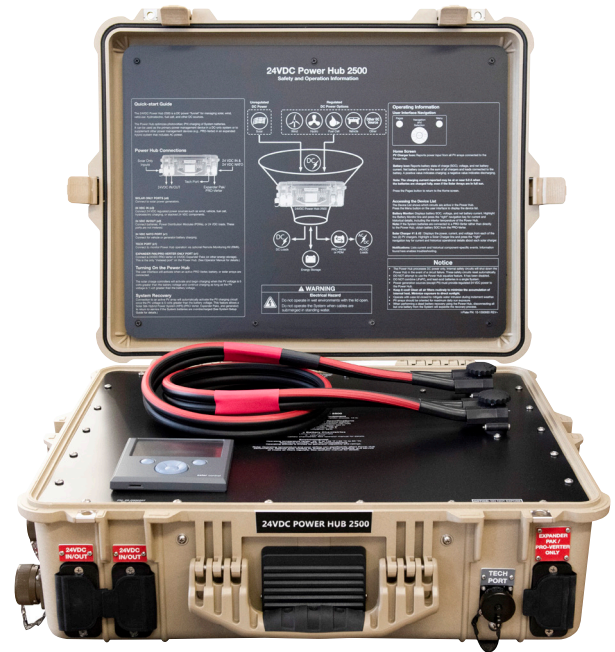
The Power Hub accepts input from DC power sources. It processes and distributes this power to batteries for energy storage, and/or to other power management devices in systems that can deliver AC power. In a DC-only battery-based system, the Power Hub can power the load directly.



Category: Power Management

# 24VDC Power Hub 2500

Item # 20-0302207



### Features

- Input up to 2.5 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	LCD 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 VDC
Maximum PV Input Current	100 A (@ 24 V nominal)
Maximum PV Power	1166 W per charge controller, 2500 W total
Efficiency	98% (typical)
Battery Charging	29.0 VDC (programmable).
Charge Control Method	Maximum Power Point Tracking (MPPT)

## Safety

Circuit Protection	Charger protected against reverse polarity and transient voltage surges
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## DC BUS Circuit Limits

200 A (recommended)

## Connections

Input(s)	<ul style="list-style-type: none"> <li>• (6) 24 VDC 50 A (per charge unit) Solar inputs (Amphenol bayonet CB2-22-2SC)</li> <li>• (3) 24 VDC 100 A (total) Inter-Connect* (regulated)</li> </ul>
Output(s)	<ul style="list-style-type: none"> <li>• (1) 24 VDC 100 A PRO-Verter/Expander Pak Inter-Connect*</li> <li>• (1) Remote Monitoring (RJ45)</li> </ul>
Input/Output(s)	<ul style="list-style-type: none"> <li>• (2) 24 VDC 100 A load/bus Inter-Connect*</li> <li>• (1) NATO receptacle</li> </ul>

\*Deltran 224-0061-BK

## Environmental

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

## 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)

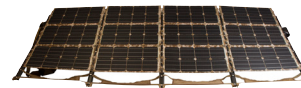
## Includes

- (1) 5-foot Inter-Connect Cable

Inter-Connect Cable can be stored inside case



## 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

