



SOLAR STIK®

Category: Energy Storage

Li Expander Pak 1300

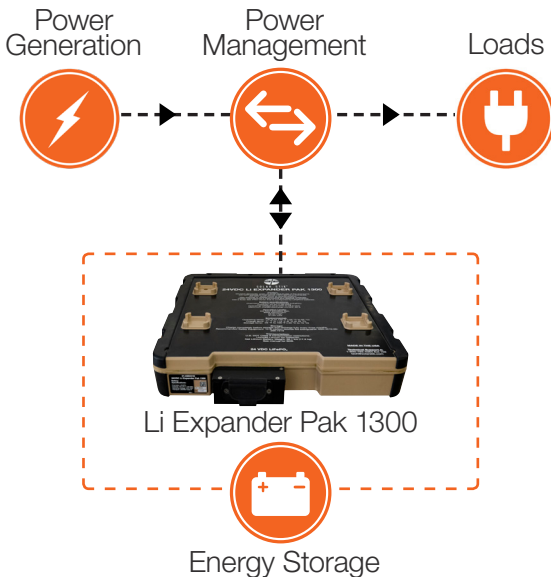
24VDC Item # 21-0202316

Stackable Storage

The Li Expander Pak 1300 is a 1.3 kWh energy storage module housed in a molded case designed for stacking multiple modules. The Li Expander Pak 1300 uses lithium iron phosphate (LiFePO₄) battery chemistry to deliver the highest energy density of any battery in its class—while maintaining a one-person lift. The lightweight, stackable, energy-dense modules can be added or subtracted quickly and easily in response to changing application requirements.

How an Expander Pak Works

Energy storage modules like the Li Expander Pak 1300, or batteries, are the heart of a hybrid power system. Power from a generation source is funneled through a power management device to the Li Expander Pak to store the energy. This stored energy is distributed by a power manager to power the load as needed. Stack additional Li Expander Pak 1300s to increase energy storage capacity.



Features

- 1.3 kWh of storage
- Integrated vertical stacking
 - One-person lift
 - 19-inch rack compatible
- LiFePO₄ chemistry
 - 100% discharged = inert
 - Transportable by land, sea, and air cargo





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General

Battery	24 VDC Lithium Iron Phosphate
Operational Voltage*	24 VDC–29 VDC
Capacity*	54 Ah
Energy Storage*	1.3 kWh
Energy Density*	75 Wh/kg
Max Discharge*	30 A Continuous
Cycle Life*	> 1500 (80% Depth of Discharge)
Transport Case	Custom
Transportation	<ul style="list-style-type: none"> Class 9 HAZMAT, UN3480, Lithium ion batteries Air transport by cargo aircraft only
Warranty	1-year materials and workmanship

*@ 25 °C/ 77 °F

Safety

Fuse(s)	200 A non-replaceable
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Battery Management System Protection

Overvoltage Limit	3.9 V per cell
Undervoltage Limit	2 V per cell
Overdischarge Current Limit	36 – 48 A, 16 ms
Overtemperature Limit	<ul style="list-style-type: none"> 70 °C (+/- 5 °C) Internal Pack x3 100 °C (+/-5 °C) FET heatsink

Connections

DC	(1) 24 VDC lithium Inter-Connect port (Deltran 224-0061-BK)
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Environmental

Operating Temperature	-4 °F to 140 °F (-20 °C to +60 °C)
Charging Temperature	+32 °F to +113 °F (0 °C to +45 °C)
Storage Temperature	-4 °F to 140 °F (-20 °C to +60 °C)
Standards	Designed for IP65

Weights and Dimensions (L x W x H)

Weight	38 lb (17.3 kg)
Dimensions	19.2 x 16.3 x 3.6 in (48.8 x 41.4 x 9.1 cm)



Recommended Compatible Components and Accessories



24VDC 5 Foot Inter-Connect Leash
Item # 13-1000267



24VDC Li Battery Maintainer 120/230
Item # 14-10010000



24VDC Inter-Connect Strip 7
Item # 13-1000160

