



SOLAR STIK®

24VDC Li Expander Pak 2400

Item # 21-0202303

Overview

Powerful

The 24VDC Li Expander Pak 2400 is a portable battery that stores up to 2.4 kWh of energy. It was designed as a highly mobile and functional platform that provides 24 VDC power for a wide variety of applications.

Durable

The Li Expander Pak 2400 is ruggedized for extreme environmental conditions and built to withstand severe impacts.

Scalable

If additional energy storage is required, battery capacity can be increased by adding Li Expander Paks using Plug & Play connections.



Features

- 2.4 kWh of storage
- Scalable system architecture
- Transportable by land, sea, and cargo aircraft
- Extremely low self-discharge rate
- Capable of over 3000 cycles
- Durable and weather resistant
- Plug & Play

Why Solar Stik?

Modular designs
Scale system to needs
Field-tested
24/7 Tech Support





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Transportation

Transportation Class	Class 9 Hazardous
Cargo Aircraft Shipping	UN3481 - LiFePO ₄ net weight 35 kg
Harmonized Tariff Code	8507.80.0000

Connections

DC	24 VDC Lithium Inter-Connect port
Battery Data	External RJ-45 Ethernet port

Charging

Charge Rate	12 A to 28.8 VDC @ temperature range 32 °C to 113 °C
Fast Charge Rate	20 A @ 25 °C (Charge rate can be up to 50 A; however, a charge rate over 20 A may reduce cycle life.)

Weights and Dimensions

Dimensions	24.76 x 13.90 x 19.57 in (62.9 x 35.3 x 49.7 cm)
Weight	110 lb (49.9 kg)



General

Energy Storage	2.4 kWh
Energy Density	73 Wh/kg
Battery	Lithium iron phosphate (LiFePO ₄)
Operating Voltage	24.0–28.8 VDC
Amp Hour	100 Ah
Average Voltage	25.6 VDC
Max Discharge	100 A continuous
Self-Discharge	<5% per month
Cycle Life	≥3000 cycles @ 1C to 80% of initial capacity
Memory	No memory effect
Controls	Automatic battery management system (BMS)
Construction	<ul style="list-style-type: none"> • Pelican 1620 case • Built to MIL-810G standards
Certifications	CE testing is pending
Warranty	1-year warranty of materials and workmanship

Safety

Breakers	50 A master circuit breaker supports max load and charge rate of 1200 W
Overvoltage	29.2 V
Undervoltage	21.6 V
Overdischarge Current	120 A
Battery Fuse	175 A UL rated

Environmental

Operating Temperature	-25 °C to +65 °C (-13 °F to +149 °F)
Charge Temperature	+5 °C to +45 °C (+41 °F to +113 °F)
Storage Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Humidity	0 to 95% RH noncondensing

