



SOLAR STIK®

Category: Energy Storage

24VDC ESM 1000

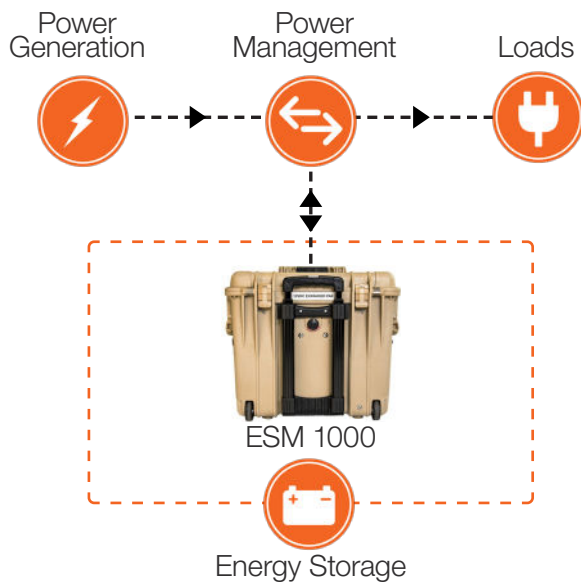
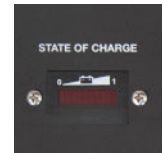
Item # 21-0102202

Stored Energy at the Ready

The ESM 1000 is a portable energy storage module (ESM) built to withstand extreme climactic conditions. Simple operation allows functionality in many applications, and polarized connections protect the user at all times. With 1.0 kWh of capacity in nonspillable, lead-acid batteries, the ESM can store energy for a variety of applications and power loads on the move. The ESM can be charged via terminal posts using a three-stage battery charger or by various Solar Stik power management devices.

How an ESM Works

ESMs (batteries) such as the ESM 1000 are the heart of a hybrid power system. The system's power manager distributes stored energy from the ESM and communicates with the Pak based on battery voltage and state of charge (SOC). ESMs are scalable and can be simply daisy-chained to increase energy storage capacity.



Features

- 1.0 kWh of energy storage
- User-interface
 - State of charge indicators
 - 100-amp master breaker
- Ruggedized for extreme conditions
- MIL-STD-810H tested; GVT Safety Confirmation for worldwide deployment
- Field serviceable
- Transportable by land, sea, and air (passenger and cargo)
- Open architecture
- Plug & Play connections





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General

| | |
|-------------------|--|
| Energy Storage | 1.0 kWh |
| Battery | (2) 12 V Lead-acid AGM |
| Amp Hour | <ul style="list-style-type: none"> 80 Ah (12 VDC) 40 Ah (24 VDC) |
| Operating Voltage | <ul style="list-style-type: none"> 10.5–14.5 VDC (12 VDC) 21.0–29.0 VDC (24 VDC) |
| Cycle Life | 600 (80% depth of discharge) |
| Features | State of charge (SOC) LED indicator |
| User Interface | LED SOC display |
| Case | Pelican 1440 case with lid organizer |
| Warranty | 1-year warranty on materials and workmanship |

Safety

| | |
|----------|------------------------------|
| Breakers | 100 A master circuit breaker |
|----------|------------------------------|

Connections

| | |
|--------------------|---|
| Post Terminal | (1) Interior 24 V post terminals with ergonomic twist knobs |
| Inter-Connect Port | (2) Exterior 24 VDC |

*Inter-Connect Port = Deltran 224-0061-BK

Environmental

| | |
|-----------------------|--------------------------------|
| Operating Temperature | -58 to +149 °F (-50 to +65 °C) |
|-----------------------|--------------------------------|

Weights and Dimensions (L x W x H)

| | |
|------------|--|
| Dimensions | 19.70 x 12.00 x 18.00 in (50 x 30.5 x 45.7 cm) |
| Weight | 97 lb (44.0 kg) |

Includes

- (1) 5 ft Inter-Connect Cable (for connection to a power management device or another ESM)
- (1) 3 ft ring terminal cable (stores inside lid organizer)

Case Color Options



Standard Color Optional Colors

Minimum quantity of 200 is required for optional colors

Recommended Components and Accessories



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



Charger, 24VDC Pb Pak, 120VAC
Item # 07-1000762

