1100 ENERGY

SBP-1100e

KEY FEATURES

LIGHTWEIGHT: man-portable

ENERGY STORAGE CAPACITY: 1,100 Wh

FLEXIBLE CHARGING: Use almost any available 9–50 Vdc power source

GRACEFUL DEGRADATION: No one component can cause complete failure

BUILT-IN SAFETY FEATURES: Automatic system and user protection

EXPANDABILITY: combine units for increased storage, runtime, and output

REAL-TIME MONITORING: LCD display provides system status information

SPECIFICATIONS

OUTPUT VOLTAGE: 6–28 Vdc

INPUT VOLTAGE: 9–50 Vdc @ 400W max

NORMAL LOAD: 250W continuous

DUTY CYCLE: 24/7 use even while charging

POWER CONNECTIONS: 5-pin circular MIL

DATA CONNECTION: 6-pin circular MIL

STORAGE CAPACITY: 1,000+ Wh initial, 72 Ah @ 13.8 Vdc, 42 Ah @ 24 Vdc

AVERAGE CHARGING TIME: 6–10 hr depending on input source

APPROXIMATE RECHARGE CYCLES: 400–1,000 depending on usage

OPERATING TEMPERATURE RANGE: 0–55 °C (32–131 °F)

UNIT WEIGHT: 28.5 lb. (13 kg)

CASE DIMENSIONS: 14.2 × 11.4 × 6.5 in. (36.06 × 28.95 × 16.51 cm)

Designed for military applications, the SBP-1100e is our flagship high-density Li-ion portable power system. It is a turnkey solution for providing safe, clean, and reliable power anywhere for any 6–28 volt requirement.

Tight integration of sophisticated software, power management electronics, charging electronics, and battery cellpacks provide ease-of-use, safety, efficiency, and reliability that is unmatched by any other system on the market.

The SBP-1100e does not require a specific external charger. The system will intelligently draw the maximum amount of available power to the input, and deliver clean, regulated power to the output. This not only allows the unit to be charged directly from almost any DC source, but also prevents damage to the SBP-1100e and any connected equipment. There are many other built-in system and user protection features including short circuit and overload protection with automatic recovery.

A two-line LCD display and pair of membrane buttons provide a simple user interface allowing the user to monitor the state-of-charge, current drain, output voltage, internal temperature, and remaining operational time of the unit. Remote monitoring and control via serial data port is also standard.

Each unit is enclosed in a custom Storm Case built to survive extreme conditions including shaking, vibration, salt, sand, dirt, and moisture. The SBP-1100e weighs only 28.5 pounds, but exceeds the equivalent storage capacity of 80 to 100 pounds of lead-acid batteries.

CABLES & ACCESSORIES

AC POWER ADAPTER

Part Number	SBP-ACAD-24V-120W
AC Input	100 – 240V, 50 – 60Hz, 4A peak
DC Output	24V, 5A, 120W
Input Connector	IEC 320-C14
Output Connector	MIL-DTL-26482 (Series 1)

AC INVERTER

Voltage	120V
Frequency	60Hz
Power	1,000W
Input Connector	MIL-DTL-26482 (Series 1)

POWER INPUT CABLES (BTO)

Connector A	Connector B	Description
MIL-DTL-26482 (Series 1)	Delphi Weather Pack	4-arm Solar Panel Input Cable (PowerFilm Type A)
	Delphi Metri-Pack	4-arm Solar Panel Input Cable (PowerFilm Type B)
	2-Way Flat TC	4-arm Solar Panel Input Cable (Trailer Connector)
	Delphi Weather Pack	6-arm Solar Panel Input Cable (PowerFilm Type A)
	Delphi Metri-Pack	6-arm Solar Panel Input Cable (PowerFilm Type B)
	2-Way Flat TC	6-arm Solar Panel Input Cable (Trailer Connector)
	Battery Clamp	Power Input Cable, Battery Clamp
	12V Auto Plug	Power Input Cable, Auto Plug
	24V NATO Slave Plug	Power Input Cable, NATO Slave Plug
	–	Power Input Cable, Bare Leads
	#10 Ring Terminals	Power Input Cable, Ring Terminals

POWER OUTPUT CABLES (BTO)

Connector A	Connector B	Description
MIL-DTL-26482 (Series 1)	12V Auto Socket	Power Output Cable, Auto Socket
	–	Power Output Cable, Bare Leads
	#10 Ring Terminals	Power Output Cable, Ring Terminals

DATA CABLES (BTO)

Connector A	Connector B	Description
MIL-DTL-26482	DE-9	Data Cable, RS-232