<b>Energy Access</b> Incorporated	<i>SBS-2502</i> <i>Smart Battery Series</i>
SBS 4002 SBS 4002 Pach to Recalibrate	SMBusLevel 3Charge rate4000mA (max)2 BaysSimultaneousRecalibrationSMBus 1000mA (max)Input Connector2.5mm, center positiveWeight13.6oz (385g)MaterialABS GSMColorBlackDimensions6.89" x 4.89" x 2.30" (175mm x 124mm x 58mm)Medical Grade Available
SB5-2502-00201 SB5-2502-00204 Custom <	Generation Control Con

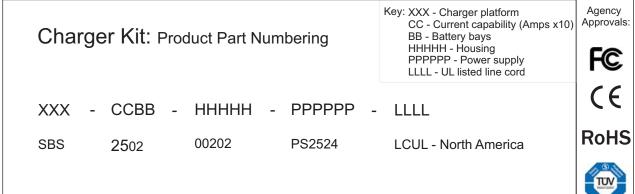
Target Batteries: Any battery pack that is compliant with the Smart Battery System

Standard SBS-2502 Kit includes: Charger Universal switching power supply Line cord (specific country) Instruction sheet

Optional Components: Vehicle power adaptor

Carton Dimensions: 12.62" x 7.75" x 2.50"





Not all part numbers displayed



## Description

The SBS-2502 is a two bay, level-3, stand alone battery charger that is compliant with the standard Smart Battery System. As such, it can charge any type of battery chemistry provided that the pack adheres to the System Management Bus (SMBus) specifications. The two bays are charged simultaneously and a discharge can be performed in either bay. The SBS-2502 uses an external universal switching power supply of 24V up to 120W.

#### **Absolute Maximum Ratings**

Input voltage

40VDC (max)

### General

Maximum battery voltage $30V \pm 0.2VDC$ Minimum battery voltage $4VDC \pm 0.05VDC$ Maximum charge current $4000mA \pm 100mA$ Minimum battery current0mACurrent granularity16mAOperating temperature $0^{\circ}C$  to  $50^{\circ}C$ Emergency shutdown temp. $>65^{\circ}C$  in either bay

### **Physical and Environmental**

Weight Material Battery bay geometry Input connector Storage temperature Humidity

Dimensions

6.89" x 4.89" x 2.30" (175mm x 124mm x 58mm) 13.6oz (385g) Black ABS GSM Various available 2.5mm, center positive -20°C to 70°C 15% to 95% (non-condensing)

### Recalibration

Implementation Activation Basic algorithm Discharge rate Discharge termination Smart batteries only Push button Charge-Discharge-Charge 1000mA (max) Status register= xxxx xxxx xxx1 xxxx (Binary)

# **LED Indications**

Off Green flashing Green solid Yellow flashing Yellow/green Yellow solid Red flashing No battery detected Fast charging Fully charged Recalibrating Recalibrated Standby or suspend Error

SBS-4002	Smart Batteries (SMBus)	Non-SMBus
Chemistry	Any	N/A
Termination Algorithm	Status register=xxxx xxxx xx1x xxxx (Binary)	N/A
Termination Value	Determined by pack	N/A
Wake-up Current	~250mA	N/A
Wake-up Period	3 minutes maximum	N/A
Charge Current	Determined by pack	N/A
Charge Voltage Limit	Determined by pack	N/A
Communications Polling Rate	6 seconds	N/A
Suspend Charging	Dependent on battery alarm bits	N/A
Override Timer	None	N/A