

PROGRAMMABLE BATTERY PROTECTOR

with LED display & remote module
SSB-6113

Description

The unit is housed in a rugged, heavy aluminum die cast with IP-67.

It is 12V/ 24V selectable for 120 Amp continuous operation.

The unique 7 segment 3digit LED display with two sealed buttons for on site programming. It completely isolates the electrical & electronic loads from the battery and its dc sources.

SSB-6113 is designed to prevent battery from over discharge and to protect battery powered devices from over voltage.

This solid state (FET switch) battery protector with on site programmable MCU controlled functions will help protect vital equipment while still allowing you to make full use of your battery.

The battery protector is capable to handle all demanding scenarios with the following features.

Fully programmable threshold voltages and delay times for Alert, Isolate (Disconnect), Reconnect operations.

The protector can be set to switch on with the ignition of vehicle or other dc source such as solar, wind power & etc. Manual on/ off and

over-ride are possible.

The unit can be set with Normally Open or Normally Close making it a highly adaptive switch for all loading demands and various DC powered battery.

There is a provision to trigger external remote alarm.

There are comprehensive protections such as over voltage , under voltage, over load, unit over temperature & short circuit protections, all auto-recover except short circuit.

Features

- MCU controlled.
- Selectable 12V/ 24V system.
- Operating voltage range:
9-17V(12V system) / 18-34V(24V system).
- Continuous Contact Current: 120 Amp.
- 3 digits 7-segment display with 5 LEDs for function indication.
- 2 control buttons.
- Programmable threshold voltage and delay time ranges

Alert before Disconnect	Default 12.6V (Adjust. 10-15.9V)	Default 25.2V (Adjust. 20-31.8V)
Alert delay time	Default 5sec. (Adjustable 1-250sec.)	
Disconnect	Default 12.4V (Adjust. 9.5-15.8V)	Default 24.8V (Adjust. 19-31.6V)
Disconnect delay time	Default 5sec. (Adjustable 1-250sec.)	
Reconnect	Default 13.5V (Adjust. 9.5-16.0V)	Default 27.0V (Adjust. 19-32V)
Reconnect delay time	Default 5sec. (Adjustable 1-250sec.)	

*Voltage setting accuracy: $\pm 0.2V$. Adjust resolution: 0.1V & 1sec.

- Selectable Ignition Control.
- Selectable Normally Open or Normally Close.
- Current consumption in disconnect state: <30 mA.
- Current consumption in connect state: <50 mA.
- Manual over-ride for reconnect.
- Remote alarm signal point.
- Remote control module with LED indicators and manual over ride button. Come with 2m cable

Protections

- Auto-recover System Under Voltage disconnect protection:
Input voltage <9.0V(For 12V system)/ 18.0V(For 24V system).
- Auto-recover System Over Voltage disconnect protection:
Input voltage >17.0V(For 12V system)/ 36.0V(For 24V system).
- System Over Load protection. The battery protector will locked and require manual restart.
- Short Circuit protection. The battery protector will locked and require manual restart
- Auto-recover Unit Over temperature protection.

* All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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Remote LED Module

Specifications

Models	SSB-6113			
Battery Voltage System	12V System		24V System	
Isolator Setting	Default	Range	Default	Range
Connect Voltage	13.7VDC	9.2-16VDC	27.4VDC	18.4-32VDC
Isolate Voltage	12.8VDC	9-15.8VDC	25.6VDC	18-31.6VDC
Alert Voltage	12.0VDC	9-15.9VDC	24.0VDC	18-31.8VDC
Connect Delay	5sec.	1-250sec.	5sec.	1-250sec.
Isolate Delay	5sec.	1-250sec.	5sec.	1-250sec.
Alert Delay	10sec.	1-250sec.	10sec.	1-250sec.
Isolator Setting Accuracy	$\pm 0.2V$		$\pm 0.2V$	
Resolution	0.1V 1sec.			
Operating Voltage	9-17VDC Nominal		± 0.218 -34VDC Nominal	
Continuous Contact Current	120Amp.			
Current draw in isolate mode	Less than 30mA (add approx. 20mA when LED display is active)			
Current draw in combine mode	Less than 50mA (add approx. 20mA when LED display is active)			
Voltage drop with 120A (Main battery to Aux. battery)	130mV		130mV	
Protections				
System Under Voltage	Disconnect (Auto reconnect when condition return to normal)			
System Over Voltage	Disconnect (Auto reconnect when condition return to normal)			
System Overload and Short Circuit	Disconnect (Complete reset by disconnect and reconnect the battery)			
Unit Over Temperature	Disconnect (Auto reconnect when condition return to normal)			
Advance Feature				
Ignition Control	Yes (Default as OFF)			
Normal Open/ Close (N.O./ N.C.)	Yes (Default as normal open)			
Remote Alert Provision for LED Indication	Yes (System Voltage, 100mA Max.)			
Conditional Manual Over-ride (connect) Mode	Yes (Remote Input +12VDC)		Yes (Remote Input +24VDC)	
Operating Temperature Range	-20°C to +60°C			
Operating Humidity	10-90% RH non-condensing			
Environmental Protection (Internal component only)	IP 67			
Approval	CE EN 61000-6-1 ; EN 61000-6-3 ; EN 50498			
Supplied Accessory	Remote LED Module with Over-ride and 2M cable, One 400V 3A Diode			
Dimensions (LxWxH)	90x90x85 mm 3.5x3.5x3.4 inch			
Weight	600 g 1.3 lbs			

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