



Remote LED Module

### Description

A programmable dual battery isolator with 3digit LED display that shows voltage of main and house battery voltage, On/Off connection mode, 4 protection states. It comes with a remote led module & over-ride button. Most isolators have only two threshold voltage, the connect and isolate voltage of the main battery. This isolator has a third threshold voltage which sets the critical voltage of the main battery. When voltage drops to the set Alert voltage setting, the remote led module flashes to warn user about the poor state of the main battery.

The reliable Mosfet switching has minimal voltage loss even at high current resulting a much less than diode based isolators. Microprocessor control circuit provides accurate monitoring and finer voltage set points, delay timer settings, fail safe protection and alert function.

The electronics is housed inside a corrosion resistant metal alloy die cast casing with IP67 rating for internal component.

### Features

- 120 Amp continuous.
- Selectable 12V/ 24V battery system.
- 3digit led display of operation and protection status.
- Display of Main & House battery voltage in isolation mode.
- Supplied with Remote LED Module with Over-ride button.
- Programmable 3 threshold voltages with respective delay time.
- Selectable Ignition Control.

### Protections & Alerts

- Under voltage
- Over voltage
- Over current/load /short circuit
- Over temperature
- Remote LED Module Indications
  - Isolator ON or OFF status
  - Main Battery at Alert low voltage level
  - Isolator in Protection Mode

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

\* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

### Specifications

Models	SSB-5113			
Battery Voltage System	12V System		24V System	
Isolator Setting	Default	Range	Default	Range
Combine Voltage (LVR)	13.7VDC	9.2-16VDC	27.4VDC	18.4-32VDC
Isolate (LVD)	12.8VDC	9-15.8VDC	25.6VDC	18-31.6VDC
Alert Voltage	12.0VDC	9-15.9VDC	24.0VDC	18-31.8VDC
Combine 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	±0.2V		±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	
<b>Protections</b>				
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)			
<b>Advance Feature</b>				
Ignition Control	Yes			
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, Diode and 2M cable			
Dimensions (LxWxH)	90x90x85 mm		3.5x3.5x3.4 inch	
Weight	600 g		1.3 lbs	

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

\* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE