

SSB-Series

Solid State Battery Isolator/Combiner /Protector



SSB-Series

Description

This solid state battery isolator uses the latest MOSFET which have the minimal internal resistance of 2mΩ which translates to a total voltage drop of 0.2V even at full load of 80A. It has an idle current consumption of 0.015A. There is no moving parts and the electronic components are conformal coated to give a safe, spark free and long lasting operation in the battery and engine electric environment .

The unit is resistant to vibration, moisture and dust ingress on the due to the sealed up construction of painted galvanized steel casing and coating on the PCB.

A Microprocessor is used for monitoring of switching-over various voltage limits. Safe disconnect in Over Temperature Protection, Short Circuit Protection, and Over Voltage Protection (at aux. terminal) are all auto re-connection when the fault condition is removed.

Operation Mode

Isolator Mode

The unit can be set to operate as a battery isolator; Main battery connect voltage @ 13.2V and disconnect voltage @ 12.6V for **SSB2180**, Main battery connect voltage @ 26.4V and disconnect voltage @ 25.2V for **SSB2280**

Protector Mode

The unit can also be set to operate as a battery protector; Main battery connect voltage @ 12.5V and disconnect voltage @ 11.8V for **SSB2180**, Main battery connect voltage @ 25V and disconnect voltage @ 23.5V for **SSB2280**,

Emergency Over-Ride

The unit can be hard wired with or without an external low voltage switch (kill switch) to connect to the positive dc source to force-connect the two terminals at all modes.

Specifications

| Models | SSB-2180 | SSB-2280 |
|--|---------------------------------|------------|
| Battery Voltage System | 12.VDC | 24VDC |
| Isolator Mode Connect Voltage | 13.2V | 26.4V |
| Isolator Mode Disconnect Voltage | 12.6V | 25.2V |
| Protector Mode Connect Voltage | 12.5V | 25.0V |
| Protector Mode Disconnect Voltage | 11.8V | 23.5V |
| Voltage Drop Across 2 Terminals at 80A (Nominal) | 0.2V | 0.2V |
| Operation Current Consumption | 0.025A | 0.025A |
| Idle Current Consumption | 0.015A | 0.015A |
| Max. Operation Voltage | 15.5V | 31V |
| Over Voltage Protection Voltage | 16V | 32V |
| Operation Connection Current | 75A cont. ; 80A max. | |
| Operation Temperature Range | Minus 40 to +50°C | |
| Delay Time in Disconnection | 15 seconds | 15 seconds |
| Over-Ride Feature | Yes | Yes |
| Indication by LED | Yes | Yes |
| Dimension | 87x67x36 mm 3.4x2.6x1.4 inch | |
| Weight | 200g 7oz. | |

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

■ SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE