

DUAL BATTERY BANK SPLIT CHARGING

Merlin Power System's SmartBank is simply the most effective battery split charging system available today. SmartBank allows two (2) battery banks to be charged simultaneously on a vehicle, while protecting engine batteries from being over-discharged by auxiliary loads.

SmartBank works by monitoring both battery banks. When it senses that either battery bank is being charged (i.e., engine cranking batteries from the alternator or auxiliary batteries from an APU), it will allow power to flow through to the other battery. Under no circumstances will batteries be overcharged or allowed to discharge into other banks.

SmartBank is available for use with vehicle electrical systems up to 300 A and 600 A.

PRIORITY ADJUSTABLE

Unlike all other split charge devices, SmartBank's settings (connect/disconnect/ hold on/hold off) are fully adjustable. SmartBank allows the user to determine how much the engine batteries are prioritized for recharge before supplying power for auxiliary use.

Relay chatter is prevented by having an adjustable connect/disconnect hold feature. It also provides the user with the ability to ensure that the electrical charge balance between engine and auxiliary batteries is right for any given installation.

PC CONFIGURABLE

SmartBank can be configured using a PC for different vehicle and battery types.

POWER SHARING

SmartBank can be configured to allow engine batteries to supplement auxiliary batteries during discharge, which can increase capacity and run time for silent watch.

EMERGENCY BATTERY BANK PARALLEL

SmartBank can be used to connect two (2) battery banks to allow one to supplement the other for emergency engine starting or other crisis scenarios where maximum reserve power is urgently required.

DIGITAL SIGNAL PROCESSING

SmartBank uses DSP (Digital Signal Processing) to ensure that it isn't confused by transient voltage and noise.

LOW POWER CONSUMPTION

SmartBank's power consumption is extremely low compared to that of other competitive products.



SPECIFICATIONS

Part Numbers:

SBK-7001 (300 A) and -7002 (600 A)

Size:

6.18" W x 6.26" D x 3.50" H

Weight:

4.19 lbs. (300 A)

4.85 lbs. (600 A)

Nominal Power Consumption:

6 mA

Normal Operating Voltage:

8 or 40 VDC

Connect/Disconnect Voltage:

Adjustable

Connect/Disconnect Time:

Adjustable

Operating Temperature:

-25° C to 105° C

Storage Temperature:

-55° C to 150° C

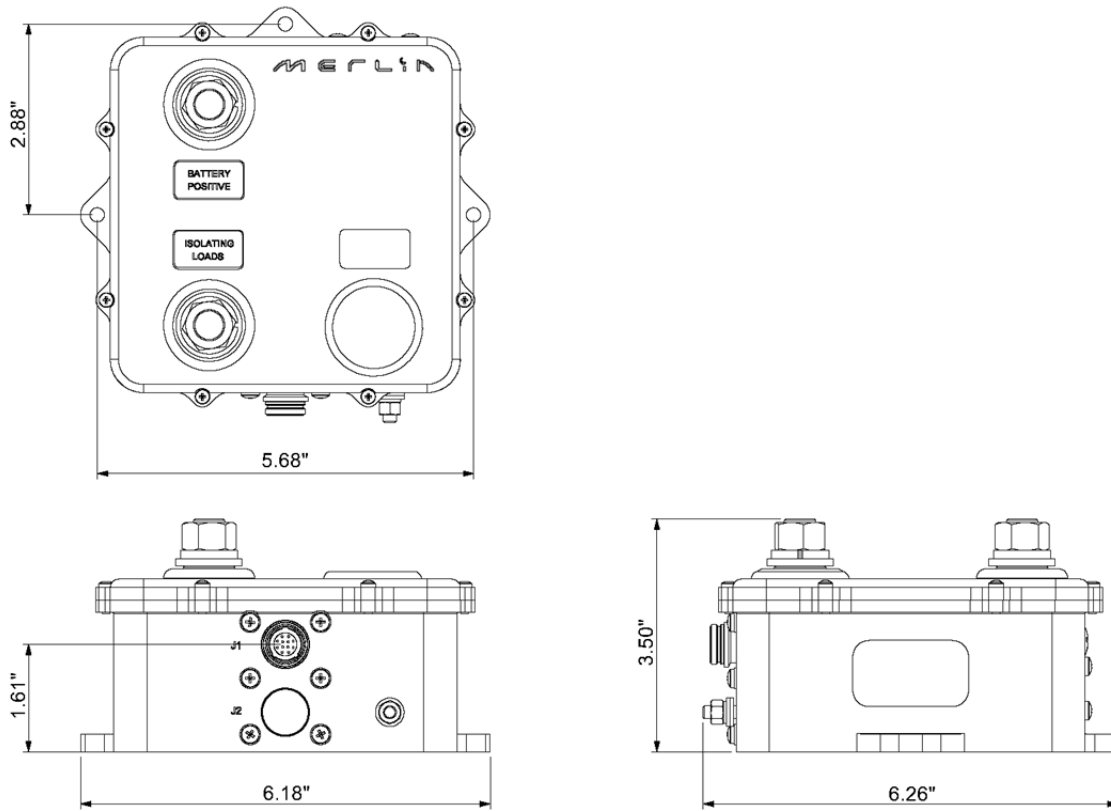
EMI Specification:

Designed to MIL-STD-461F

Environmental Certifications:

Designed to MIL-STD-810G

OUTLINE/INSTALLATION DRAWING



SYSTEM OVERVIEW

