

# Battery Guard® 1000 (12v)

Part number: 00-01118-000



The Battery Guard® 1000 provides a solution for protecting your batteries from discharging to a level that might damage your batteries or to a level that prevents the vehicle from being started. The Battery Guard® 1000 constantly monitors the voltage level of the battery to determine the level of charge. When the voltage drops below the low voltage threshold for a specified duration of time, the Battery Guard® 1000 will automatically disconnect the battery from the system load, protecting the battery from excessive discharge.

If the Battery Guard 1000® senses a charging potential for a specified duration of time, then it will automatically reconnect the system load. This condition usually occurs when a charging device is connected to the battery or the engine is running.

## **Connecting and Disconnecting the System Loads**

The Battery Guard® 1000 accepts a momentary switch input signal. This switch allows user control to manual disconnect or reconnect the system loads at the user's discretion. Simply push and release the pushbutton and the Battery Guard® 1000 will switch states. Keep in mind, the device has a built-in state change delay of 5 seconds to prevent constant cycling of the disconnect.

*Note: If the user chooses to disconnect the system manually, the Battery Guard® 1000 will not automatically reconnect if it senses charging.*

## **Alarm indication**

An alarm output is used to provide the user with valuable information about the state of the disconnect. This is a high side output alarm that is limited to 300 mA. When used with Intellitec's Battery Guard Switch (11-01085-001), this output is tied to an LED indicator.

**Solid On** – Indicates that the system loads are connected, and the battery voltage is above the low voltage threshold.

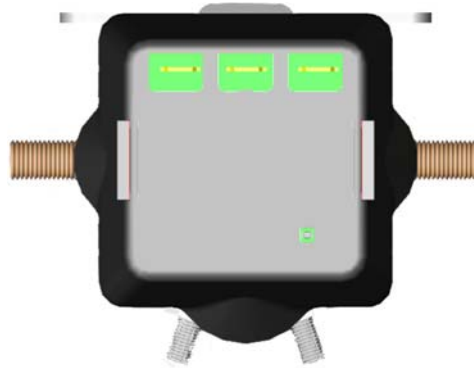
**Flashing at ½ Hz** – Indicates that the system loads are connected, and the battery voltage is below the low voltage threshold.

**Solid Off** – Indicates that the system loads are disconnected.



## Diagnostics

If the Battery Guard® 1000 fails to operate as intended, locate the device. The Battery Guard® 1000 provides a diagnostic LED on the module that indicates several failure modes.



(Diagnostic LED located in the lower right corner)

- 1 Blink – Failed to disconnect
- 2 Blinks – Failed to reconnect
- 3 Blinks – Below minimum disconnect voltage.

This information can be very useful when trying to troubleshoot the Battery Guard® 1000. In the event that there is an issue and the operator needs to bypass the disconnect. Remove the System load wire from the Battery Guard 1000 terminal and move it to the same side as the positive battery feed.

**WARNING:** Before performing this task, disconnect all sources of power. Unplug the coach and turn off the generator. Disconnect the battery(s) negative (-) terminal.

## Operating Parameters

The table below defines the operating parameters used by the Battery Guard® 1000. The device comes with two sets of preconfigured parameters, one for chassis disconnects and one for coach disconnects. Depending on what mode the device is in, the parameters may vary.

Parameter	Chassis Battery	Coach Battery
Low Voltage Disconnect Threshold	12.1 Volts	10.5 Volts
Isolation Delay	5 Minutes	3 Minutes
Minimum Disconnect Threshold	9.0 Volts	
Charging Voltage Threshold	13.3 Volts	
Reconnect Delay	1 Minute	
State Change Delay	5 Seconds	

Refer to the 53-01118-200 Installation Guide on how to switch between configurations.

Available Product Literature and Guides:

Brochure:	53-01118-000
Product Specification:	53-01118-001
User's Guide:	53-01118-100
Installation and Applications:	53-01118-200
Supporting Documents:	53-01118-300

Contact Information:

[www.intellitec.com](http://www.intellitec.com)

Intellitec Products, LLC      1485 Jacobs Road, De Land Florida, USA 32724  
(386) 738-7307