

# HD Bi-Directional Isolator Relay Delay (B.I.R.D.®)

Part number: 00-01194-000



## Description:

The HD Bi-Directional Isolator Relay Delay or B.I.R.D.® is a core piece of a DC Management System that includes both a coach and a chassis battery. Its has 3 primary functions:

- 1) Bridging two battery banks together when a charging source is present from either one.
- 2) Isolating the batteries when the charging source is removed or when both battery banks are fully charged.
- 3) Providing aux start power when the chassis battery is low and unable to start the vehicle.

The HD B.I.R.D.® uses Intellitec's 250A Latching Battery Disconnect Relay. Compared to other battery isolation devices that are continuous duty and require constant power, the HD B.I.R.D.® utilizes Intellitec's latching mechanism which means it only consumes power when changing states' making it a "Green" product. Unique to this HD B.I.R.D.® is the bi-directional current monitoring. This not only provides over-current protection as an added safety feature but also gives insight to the batteries' state of charge that other isolator products do not. Unlike other isolator products that stay connected for as long as the charging source is present or use a fixed bridge time, the B.I.R.D.® uses both voltage and current to accurately measure the battery's State of Charge. This provides the ability to fully charge the battery without concern for overcharging damage.

The RV-C ports provide real-time information to the end user about battery levels, power consumption, system health, status and more on the vehicle's electrical system.

# PRODUCT SPECIFICATION

53-01194-001



Intelligent Use of Technology

## Product Features

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- 250 Amp continuous load capacity
- Mechanically latching requires no current draw to maintain state.
- Configurable parameters to work with all battery types.
- Automatic bridging and isolating of batteries.
- Bridge and isolation verification with automatic retry.
- Low side switch input for aux starts functionality
- Industry standard connectors for easy installation
- Ignition Proof
- 400 Amp Bi-Directional current sensing
- Dual RV-C Communication ports with isolated voltages

## Environmental Specifications

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Operating temp:	-20/50 deg C	(-24/122 deg F)
Storage temp:	-40/85 deg C	(-40/185 deg F)
Intrusion Rating:	None	
Agency approvals:	None	

Electrical Specifications	Unit	Min	Typ	Max
Operating supply voltage	V	9	12	18
Reverse supply voltage	V			-30
Quiescent Current Draw	mA			1
Operating Current Draw	mA			10
Logic Input Voltage	V	0	12	18

Mechanical Specifications	Unit	L x W x H
Housing:	Inch	2.53 x 4.02 x 3.52
	mm	64.26 x 102.11 x 89.41
Module Weight:	oz	14.4
	g	408.23

Available Product Literature and Guides:

Brochure:	53-01194-000
Product Specification:	53-01194-001
User's Guide:	53-01194-100
Installation and Applications:	53-01194-200
Integrators Guide:	53-01194-300

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