

ANALYTIC SYSTEMS

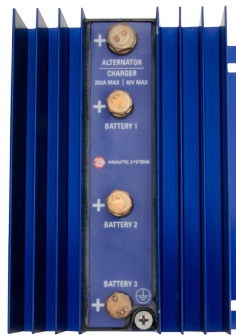
Power Conversion Solutions

IDEAL BATTERY ISOLATOR

MODEL IBI2 & IBI3 Series



Top / mounted view



Top / mounted view

Benefits

- All batteries charge when engine running, regardless of master switch setting
- Batteries isolated from each other when engine off
- Complete battery charging due to very low voltage drop, only 0.16 volts at 200 amps and 0.016 volts at 20 amps
- 200 Amp current carrying capacity ensures compatibility with almost every alternator

Design Features

- All circuitry sealed in epoxy for water resistance
- The alternator can be directly wired to the batteries through the isolator
- CNC machined connection points and bronze fasteners ensure low resistance connections
- Internal high current busbar for optimal current distribution
- Compatible with 12, 24, 28 and 32 volt battery systems
- Can also be used with a single output battery charger
- Extremely compact design saves space

Description

Analytic Systems introduces the IBI (Ideal Battery Isolator) for 2 bank and 3 bank battery systems, allowing all the batteries to be fully charged from a single alternator while maintaining electrical isolation between the battery banks.

Ideal Diode technology uses MosFet Transistors and control circuitry to replace the diode used in a traditional battery isolator and reduces the voltage drop across the isolator to a mere 160 millivolts at 200 Amps of charging current and essentially zero volts at low current, so all the power of the alternator is applied to the batteries ensuring a full recharge every time.

While the Ideal Battery Isolator is designed to be used with an alternator, it can also be used to convert a single bank battery charger to a 2 or 3 bank charger.



Available in three colours

An ISO9001 and AS9100 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 800.668.3884 (US/CANADA)

www.analyticsystems.com

IDEAL BATTERY ISOLATOR

MODEL IBI2 & IBI3 Series

Electical (Input)

Voltage	10 - 40 VDC for 12, 24, 28 or 32V Battery Systems
Current	0 - 200 Amps Continuous
Number of Battery Banks	2 - IBI2-40-200 3 - IBI3-40-200

Environmental Specification

Temperature Rise	< 40 deg C @ 200 Amps Continuous
Isolation	None - Heat Sink bonded to Battery Negative

Mechanical Specification

Length	6.0 in / 152.2 cm
Width	4.8 in / 12.2 cm
Height	2.6 in / 6.6 cm
Clearance	1 inch (2.5 cm) all around
Material	Marine Grade Aluminium
Finish	Black, Red or Blue Anodize/Epoxy Potting
Fastenings	All Silicone Bronze
Weight	2.0lbs / 0.9 kg
Connections	Alternator Positive 5/16-18, Battery Positive 1/4-20 (x2 for IBI2; x3 for IBI3), Control Ground 10-32
Warranty	3 years

Note: Specifications are subject to change without notice.



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