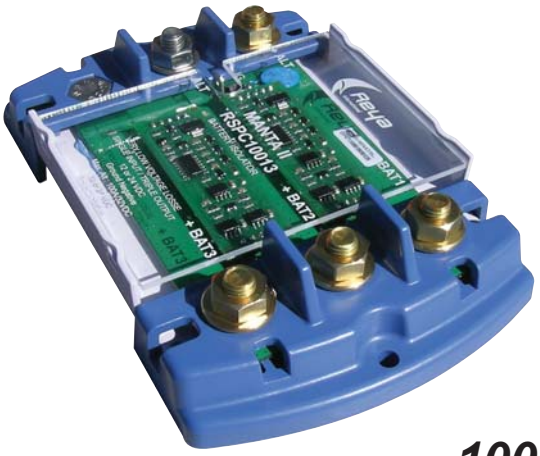
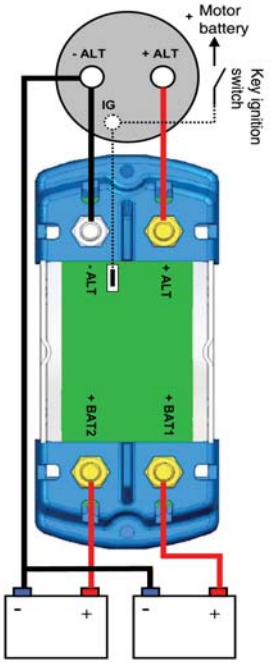
MANTA II Electronic *Battery isolator*





100 or 150 Amp

Advantages of an electronic battery isolator

Unlike classic battery isolators with diodes, electronic isolators make it possible to have a very low drop between the alternator voltage level and that of the battery.

The higher the current is, the higher the voltage drop will be. The voltage drop reached, for 150A, on one channel, 90mV typ. / 120mV max (measured while warm).

At the end of the charging cycle, the current diminishes. The voltage drop becomes very weak (only a couple of mV), the batteries are thus optimally charged without having to modify the regulation circuit of the alternator.

During charging, the 150a isolator acts as a resistor of less than 1mOhm or the equivalent of a copper wire of 16mm² with a length of 1m.

Likewise, thanks to the low voltage drop, power losses are reduced thus increasing the global output of the charging circuit and reducing the heat to be vented. This diminishes the battery charging time (upon condition that the losses via the cables are negligible).

Input power	**10 to 32V**
Maximum charging current	**100 or 150A**
Alternateur consumption	**~ 35 mA**
Battery consumption	**< 2 mA**
Current leak batteries	**< 1 mA between 2**
Voltage drop at max. current	**~ 100mV**
Voltage drop at max. current/2	**~ 50mV**
Voltage drop at end of charge	**< 5mV**
Operating temperature	**14°F to 140°F**
Storage temperature	**-4°F to 185°F**
Cooling	**Natural**
Relative humidity	**10% to 90%**

PROTECTION
By means of an external fuse adapted to the alternator's output current (not supplied)

EMC & SAFETY STANDARDS	
Emission	**EN 60081-1**
Immunity	**EN 60082-1**
User safety	**EN 60950-1**
MECHANICAL	
Casing	**Aluminium & plastic**
supports	
Mounting	**Horizontal or vertical with 2 x 4 mm screws**
CONNECTIONS	
All connections	**Terminal pins + M8 screws**

Code	Description		Dimensions	Weight
299051	Battery Isolator 100a	1 Input 2 Output	165 x 70 x 35 mm	230 grs
299053	Battery Isolator 100a	1 Input 3 Output	165 x 106 x 35 mm	330 grs
299068	Battery Isolator 150a	1 Input 3 Output	165 x 106 x 35 mm	330 grs

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