

Electronic battery isolators

RCE+



MOSFET
technology



Voltage drop
free



IG ready



Multi-voltage



Compact



CRISTEC



Presentation

RCE+ battery isolators allow simultaneous charging of 2 or 3 batteries from one alternator without connecting the batteries together. Discharging the house battery for example will not result in discharging the starter battery.



MOSFET technology

The technology used, based on **MOSFET** transistors, ensures negligible voltage drop between the input and the outputs. This is a major advantage compared to a diode isolator.



Voltage drop free

Because there is no voltage drop due to **RCE+** isolator, there is no need to increase the output voltage of the alternator.



Multi-voltage

The isolator works with 12VDC and 24VDC voltage, and also allows the use of LiFePO₄ (Lithium) batteries.



2 or 3 banks

The **RCE+** is used to split an input power source (alternator, solar regulator, hydrogenerator, etc.) to two or three consumers (batteries, consumers)



IGNITION ready

Some alternators need DC voltage on the + output to start charging. Inserting a battery isolator will prevent any return voltage from the battery and the alternator will not start. The **RCE+** splitters have an IG Input that will power the + output when switching on the engine.



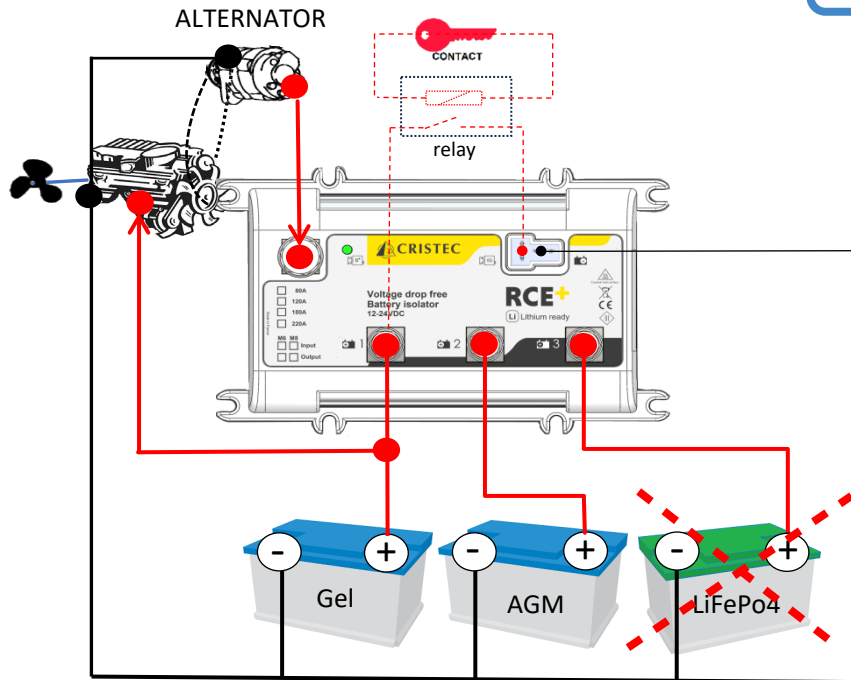
Interchangeability

The **RCE+** is designed to be fully interchangeable with previous RCE without any modifications.

Item code*	Rated current	Number of outputs and Ø	IG connection (alternator stimulation)	Dimensions (w x h x d)	Weight
RCE80-1EM6-2SM6-PL	80A	2 x M6	yes	159 x 100 x 36 mm (6,25 x 3,93 x 1,41in)	0,45 kg (1 lb)
RCE120-1EM6-2SM6-PL	120A	2 x M6			
RCE180-1EM8-2SM6-PL	180A	2 x M6			
RCE180-1EM8-3SM6-PL		3 x M6			
RCE180-1EM8-2SM8-PL		2 x M8			
RCE180-1EM8-3SM8-PL		3 x M8			
RCE220-1EM8-3SM8-PL	220A	3 x M8			

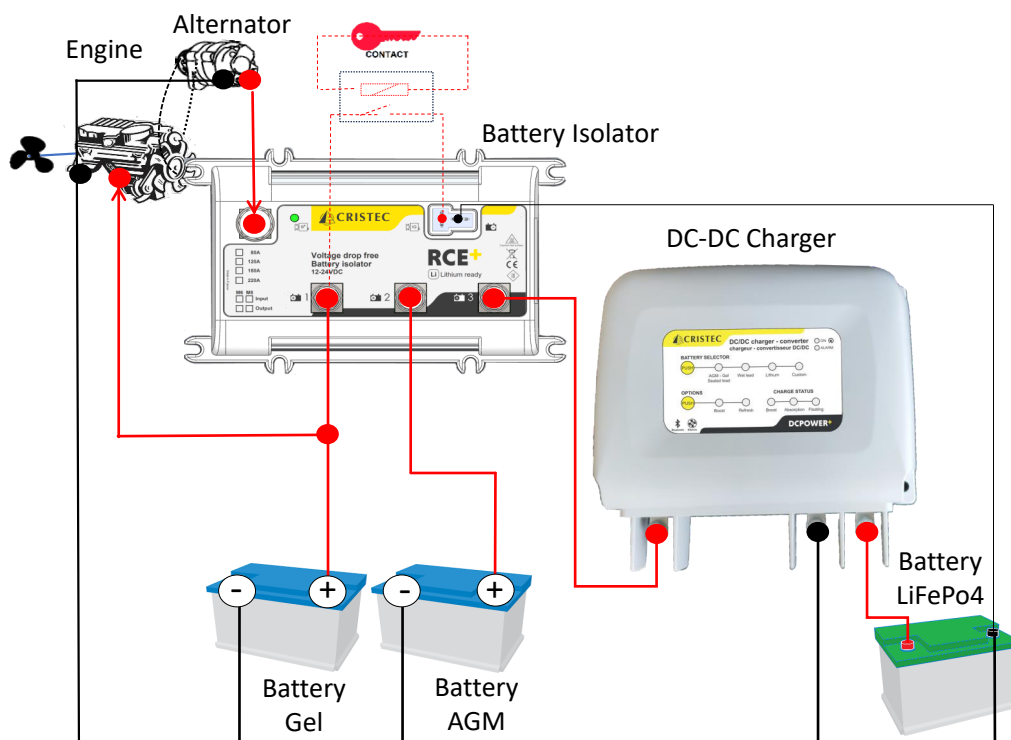
* Former references will be delivered until previous RCE phase-out completed

Typical installation



Mixing Lithium batteries with other technologies is not advised

Typical installation with DC conversion



DCPower+ converts 12VDC from RCE+ isolator into 24VDC lithium battery voltage.

Typical installation with various types of batteries → see **RCB+** P.69



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