



victron energy ARGOFET Battery Isolator with Alternator Energize Input Instructions

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ARGOFET Battery Isolator with alternator energize input

Warning: hot surface, mount the Argodiode on non-flammable surface only!

No voltage loss

In contrast with Argodiode battery isolators, Argofet isolators have virtually no voltage loss. Voltage drop is less than 0,02 Volt at low current and averages 0,1 Volt at higher currents.

When using Argofet Battery Isolators, there is no need to also increase the output voltage of the alternator. Care should be taken however to keep cable lengths short and of sufficient cross section.

Example:

When a current of 100 A flows through a cable of 50 mm² cross section (AWG 0) and 10 m length (30 ft), the voltage drop over the cable will be 0,26 Volt. Similarly a current of 50 A through a cable of 10 mm² cross section (AWG 7) and 5 m length (15 ft) will result in a voltage drop of 0,35 Volt!

12/24 Volt auto ranging

The Argofet will automatically adjust to a 12V or 24V system.

Alternator energize input

Some alternators need DC voltage on the B+ output to start charging.

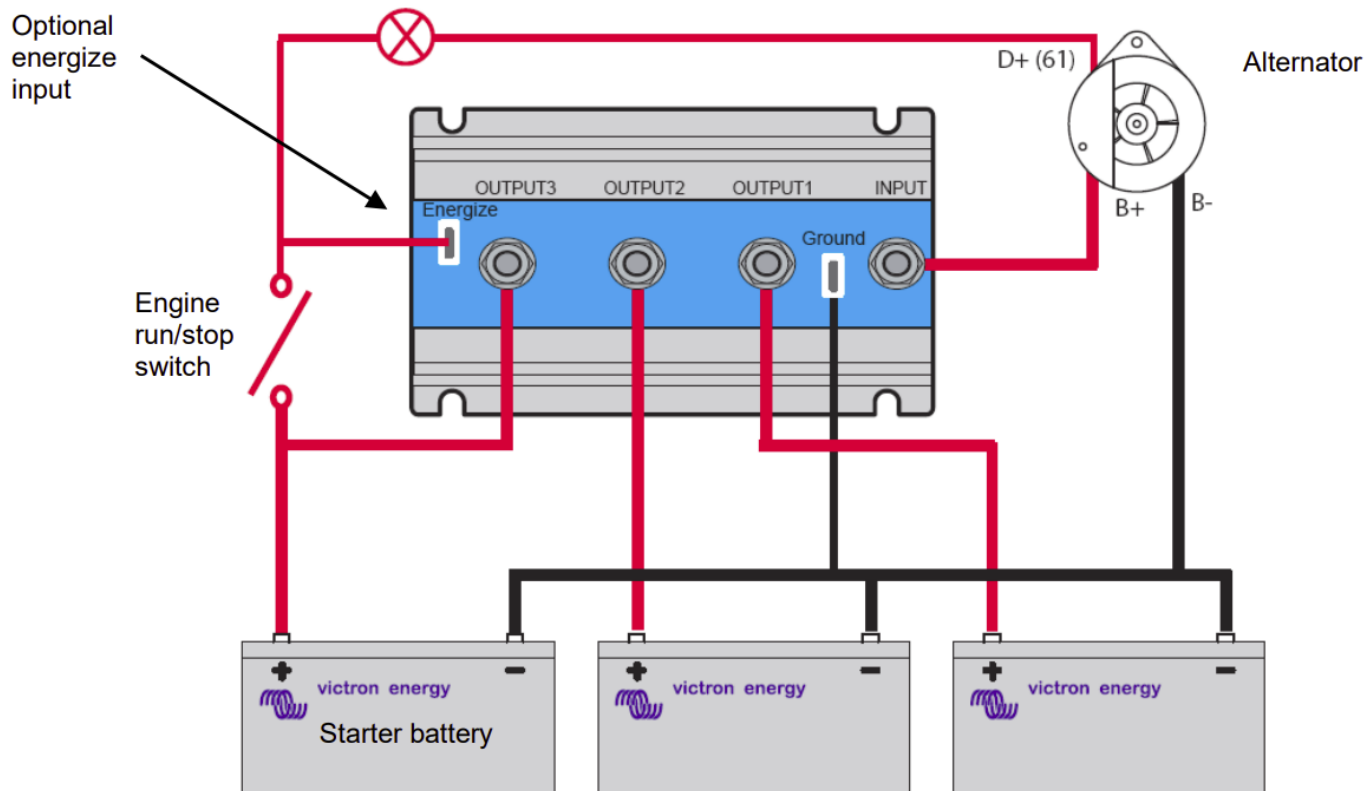
Obviously, DC will be present when the alternator is directly connected to a battery. Inserting a Diode or FET splitter will however prevent any return voltage/current from the batteries to the B+, and the alternator will not start.

The new Argofet isolators have a special current limited energize input that will power the B+ when the engine run/stop switch is closed.

Installation (see figure below)

1. Always disconnect the battery minus cables before making alterations to the electrical system.
2. Connect the positive output of the supplying source (alternator) to the input of the battery isolator
3. Connect the positive connection of the battery sets to output 1, 2 and (optional) 3 respectively.
4. Connect the 'Energize' blade terminal to the engine run/stop switch (optional). Minimum cable cross section: 2,5 mm².
5. Connect the 'Ground' blade terminal to the common negative bus bar. Minimum cable cross section: 2,5 mm².
6. Connect the negative poles of the battery sets to the common negative bus bar.

The blue LED will light up when voltage is present on the input of the Argofet.



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Documents / Resources

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References

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