



# A **Solution** for all Applications

ProSplitR is an advanced split charge management device, developed specifically to deal with the complex nature of modern multi battery systems in boats and vehicles. For single or dual alternator input to two, three or four battery bank installations.

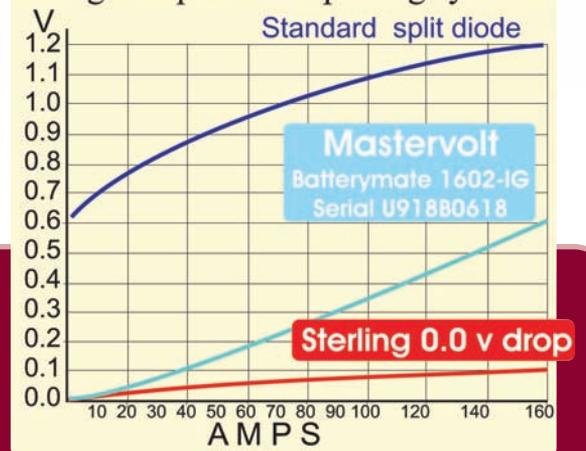
Complex software with some 1000 lines of code analyses every perceivable condition to ensure charging priorities are managed exactly as you want with specific focus on preserving charge in the the engine start battery. Each input & output terminal is independently monitored to establish status before deciding where charge will be delivered and to prevent discharge from one battery to another.

One key feature of ProSplitR is truly zero volt drop. Many alternative products claim to have no voltage loss but, under test, are proven not to be so especially with heavy loads - *when it really matters!* The graph shown illustrates this. It may not seem significant but 1V drop equates to as much as 30% lost charging power in a 12V system.

Unlike conventional Voltage Sensitive Relays (VSR's), ProSplitR has the ability to identify any reverse current or over-voltage condition and disconnect individual batteries to avoid damage or discharge. The ignition sense connection also ensures that the device knows the engine is running and protects the start battery when it is not.



Voltage drop across splitting systems



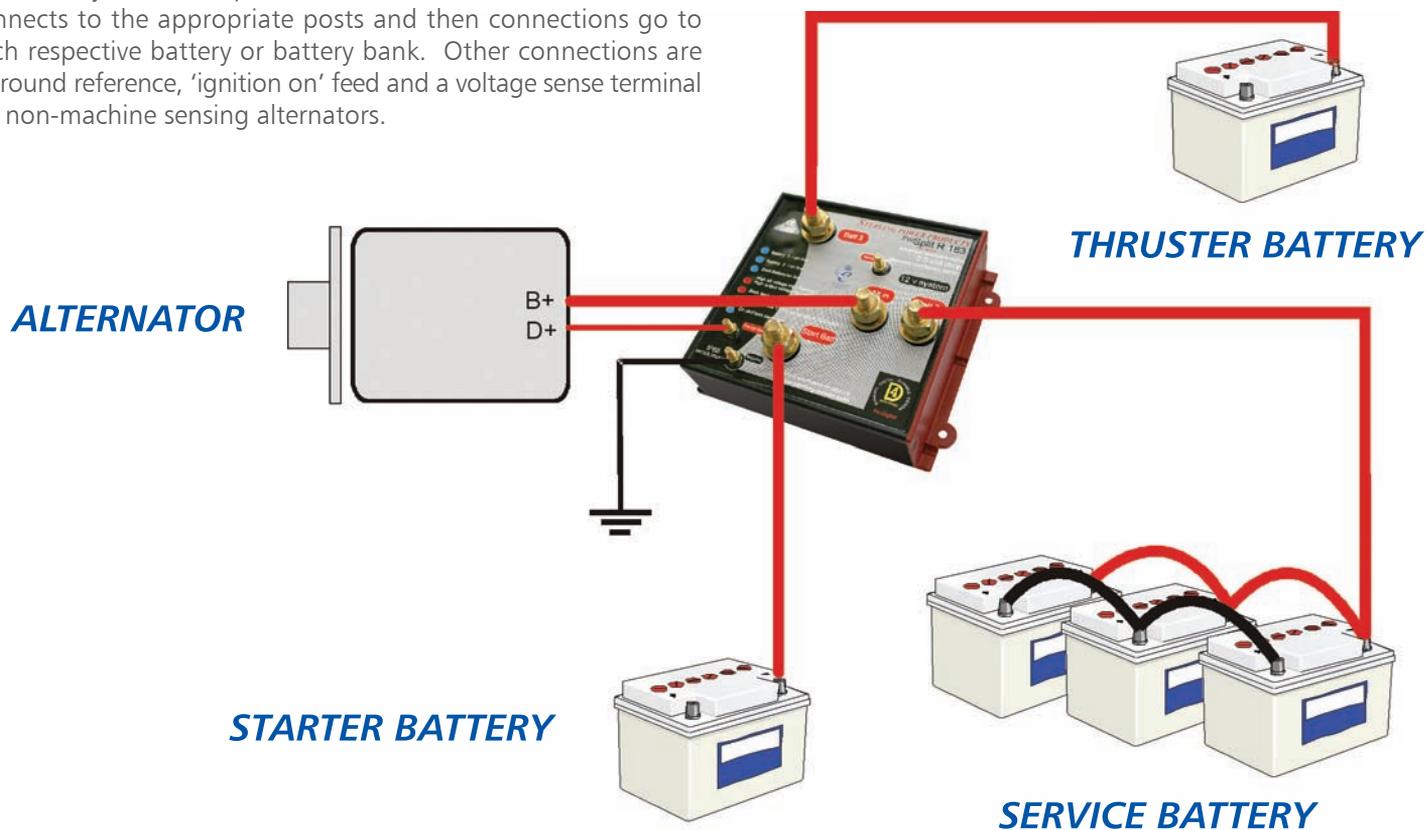
### Principle features:

- ▶ Distributes power according to need.
- ▶ Individually isolates a battery bank immediately upon detection of reverse feed to prevent discharge.
- ▶ Isolates all except the main battery bank in the event of high load discharge.
- ▶ In the event of alternator &/or regulator failure ProSplitR will disconnect input to prevent batteries from overcharge.
- ▶ Isolates any battery where high voltage is present that, for example, might be caused by a separate battery charger.
- ▶ LED display shows status of all channels, if they are in use or not and provides alarm status information.
- ▶ Industrial rating capable of sustaining massive overload conditions.
- ▶ Fail-safe; In the event of device failure, alternator and engine start battery remain connected.
- ▶ IP66 waterproof rating.
- ▶ Integrated current limiting feature to prevent overload and short circuit.
- ▶ 'Ignition on' sense connection.

# Technical Details



ProSplitR is easily installed into any existing system or integrated into new systems. Output from the alternator (or alternators) connects to the appropriate posts and then connections go to each respective battery or battery bank. Other connections are a ground reference, 'ignition on' feed and a voltage sense terminal for non-machine sensing alternators.



Alt. Volts	Max Alt. Amps	Output Bat. Bank	Unit Size (mm)	Unit Weight (mm)	Sterling Part Nos.
12v	120	2 out	150 x 80 x 120	0.6	PSR122
12v	180	2 out	150 x 80 x 140	0.7	PSR182
12v	230	2 out	150 x 80 x 155	1.0	PSR252
12v	120	3 out	150 x 80 x 130	0.9	PSR123
12v	180	3 out	150 x 80 x 175	1.0	PSR183
12v	230	3 out	150 x 80 x 220	1.3	PSR253
12v	Twin 130	4 out	150 x 80 x 295	1.8	PSRT134
24v	60	2 out	150 x 80 x 120	0.6	PSR62
24v	100	2 out	150 x 80 x 140	0.7	PSR102
24v	150	2 out	150 x 80 x 165	1.2	PS152
24v	240	2 out	150 x 80 x 250	1.7	PSR242
24v	60	3 out	150 x 80 x 150	0.7	PSR63
24v	100	3 out	150 x 80 x 175	1.0	PSR103
24v	150	3 out	150 x 80 x 220	1.3	PSR153
24v	Twin 80	4 out	150 x 80 x 295	1.8	PSRT84



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