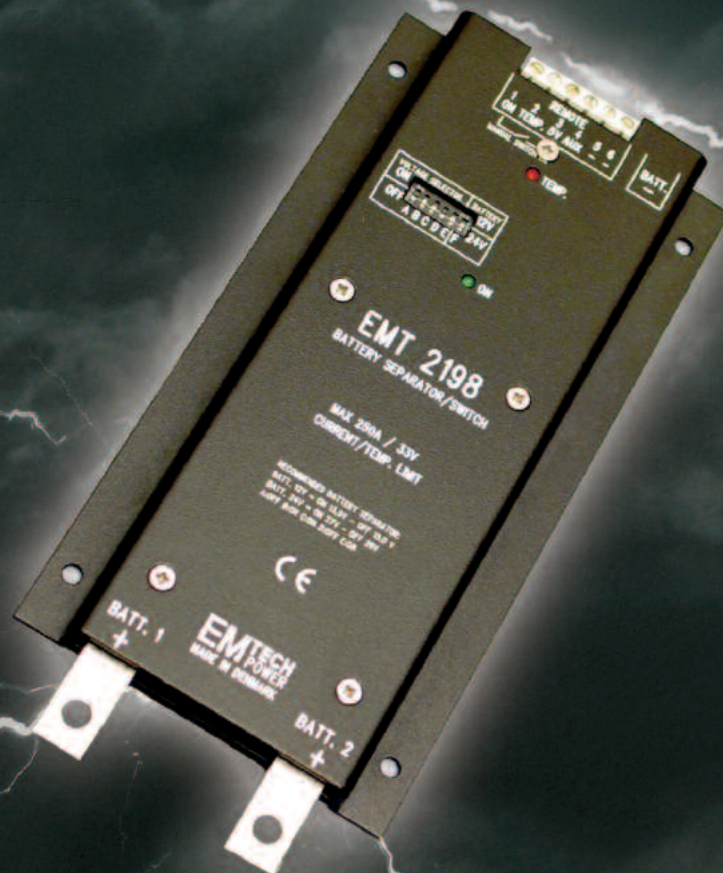


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**EMTECH**  
*Power*

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**SOLID STATE**  
**BATTERY SEPARATOR / SWITCH**



**WHEN YOU NEED EFFICIENT AND  
SMART BATTERY INTERCONNECTIONS**

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# EMTECH *Power*

is your partner



When failure  
is not an  
option



When you have  
demands for  
separate power  
systems



When you need  
multiple  
battery charging



When your  
environments  
are tough



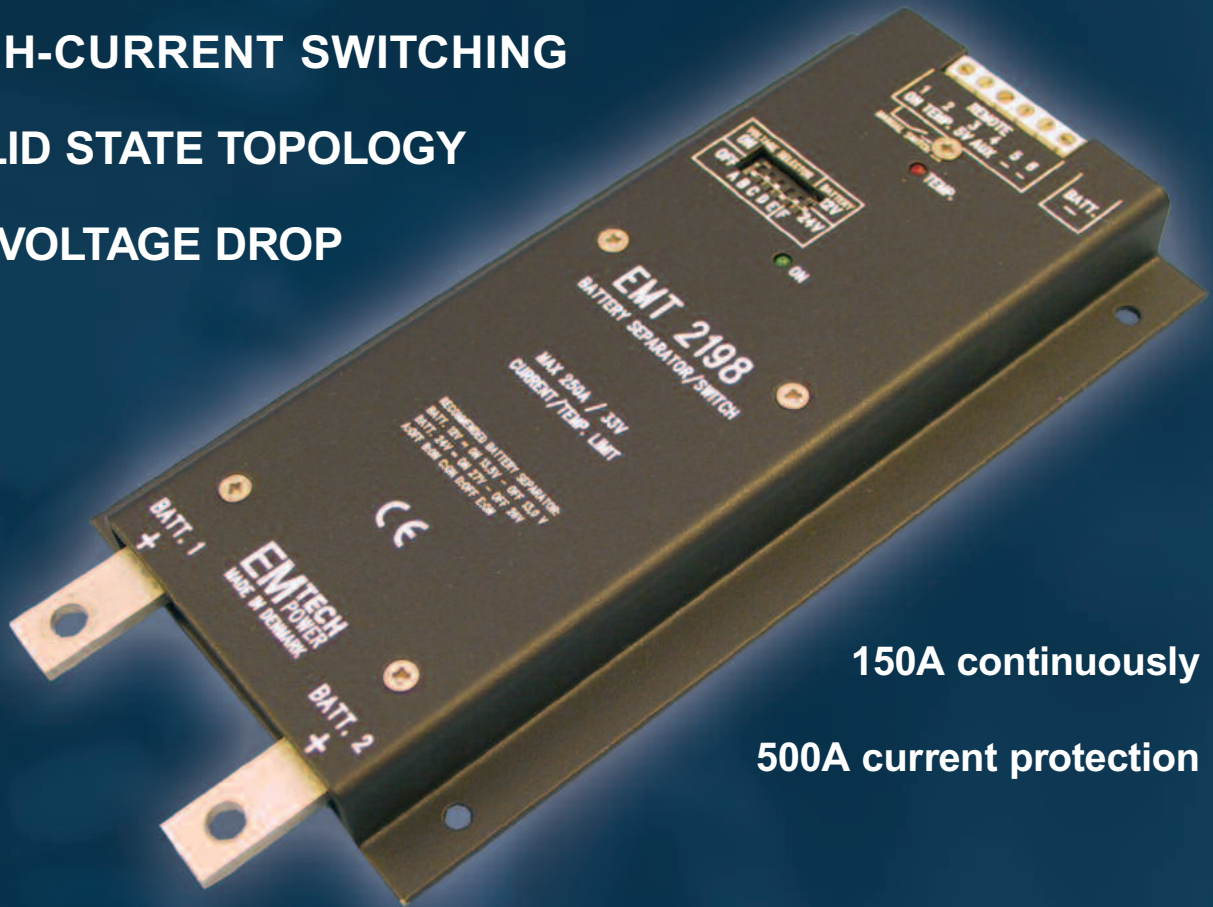
And when you  
just want a trouble-  
free solution

▼ NO SPARKING - NO MECHANICAL CONTACTS

▼ HIGH-CURRENT SWITCHING

▼ SOLID STATE TOPOLOGY

▼ NO VOLTAGE DROP



150A continuously

500A current protection

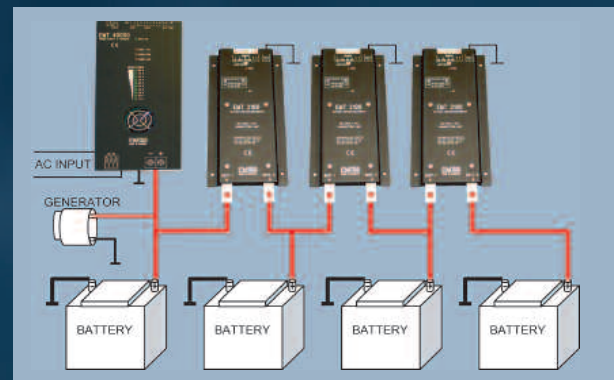
EMTech's high-quality Solid State Battery Switch is the ideal solution for those with a need for separating power systems or multiple battery charging.

The Switch has nearly no voltage drop and features full charging and protection of your batteries.

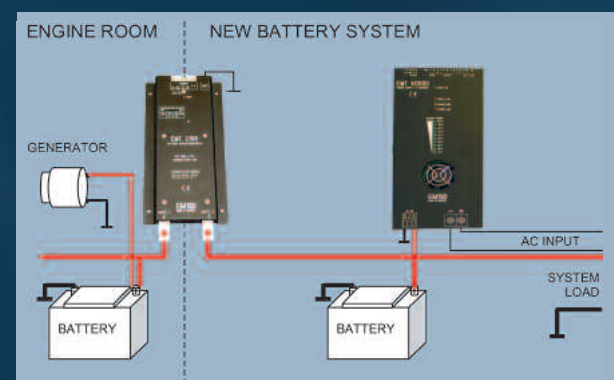
The compact design combined with the high-efficiency topology make the Switch ideal for installation into most equipment.

EMTech's focus is to create flexible and easy-to-use products, making day-to-day routines easier and safer. The Switch is simple to mount, failure-protected and designed for rough environments.

For dual power systems or prioritised battery charging, the Battery Separator/Switch can advantageously be used in connection with EMTech Battery Chargers.



Sample of a typical dual power system using EMTech Battery Charger and Battery Switch



In a car/truck or on a boat, an isolated battery system is easily established.

Above shows a two-battery system that is only interconnected if the generator or charger is active.

## Main Features

- ▼ **Separate Power Systems** - The Switch isolates batteries so the discharge of one battery does not drain the other batteries.
- ▼ **Multiple Battery Charging** - allows multiple batteries to be charged from one charging source.
- ▼ **2-in-1 separator** - The Switch can be installed to serve both as isolator for external battery charger as well as for auto generator. Current will run in both directions.
- ▼ **No Voltage Drop** - The high-efficient Switch supplies correct charging voltage with nearly no voltage-drop to secure full performance of your batteries
- ▼ **Long Lifetime** - The Switch is fully electronic and no contact nor relay is used. The Switch is manufactured with reliable high-temperature/long-life components and the temperature protection function ensures that no components are stressed during operation.
- ▼ **Ideal for Permanent Installation** - The Switch high-efficiency combined with the compact design in non-corrosive alu-boxes make the Switch ideal for installation - also in rough environments.
- ▼ **Protection** - The Switch is failure tolerant and protects connected equipment against over-current, overtemp. and short-circuits in wiring, etc. Unit is protected against large voltage transients by an internal circuit.
- ▼ **Flexibility** - The Switch can easily be adapted to other voltages through simple DIP-switch interface.
- ▼ **Easy Monitoring** - The Switch LED panel provides easy overview of input and temperature.
- ▼ **External Control** - The Switch provides a remote signal for overtemp. indication and is supplied with an external ON/OFF control for overriding the internal voltage control.
- ▼ **High Current Switching** - The Switch can take the place of mechanical high current switching devices like solenoids, contactors, knife and rotary switches. With a very low voltage drop across terminals the Switch can provide loads from 0 to 500A and will protect connected circuits against over-currents higher than 500A. In short circuit operation the Switch is able to disconnect currents up to 1500A.
- ▼ **Safe Operations** - The Switch generates no sparks when switching, which makes it suitable for working in explosive environments.

## About EMTech



*EMTech has more than 20 years of experience in designing and manufacturing reliable power products for Industrial-, emergency-, medical- and military applications.*

*We have an excessive knowledge of materials and topologies and know the best results are achieved through close dialogue with our customers and efficient manufacturing facilities.*

*Our Quality system is compliant to ISO 9001 and we are accustomed to work in accordance with international norms and standards, UL included.*

*EMTech products comprise a range of standard products for DIN-Rail Power supplies, Battery Chargers and Electronic switch as well as Custom tailored design solutions.*

*We are located in Asnaes, Denmark and in Bangkok, Thailand.*

**For more information, please contact**

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*Power*

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