

EMTECH
Power

SWITCH MODE BATTERY CHARGERS



**WHEN YOU NEED FAST AND
FULL BATTERY CHARGING**



EMTECH *Power*

is your partner



When failure is not an option



When you need reliable back-up systems



When you have demands for flexible or multiple battery charging



When your environments are tough



When battery efficiency and lifetime are key parameters to you

And when you just want a trouble-free solution

▼ FAST 4-STEP BATTERY CHARGING

▼ LONG BATTERY LIFETIME

▼ FAILURE TOLERANT

▼ LED DISPLAY



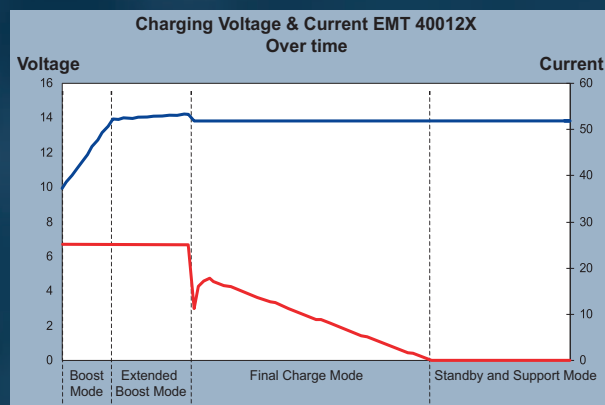
12V / 25A
24V / 15A
36V / 10 A
48V / 7.5A

The EMTech family of high-quality Switch Mode Battery Chargers for lead/acid accumulators is the ideal solution for those relying on battery performance.

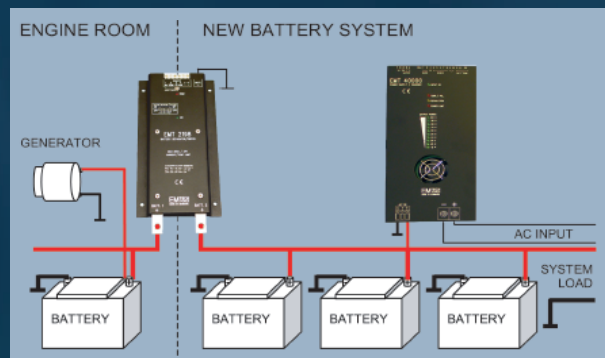
The 4-step Chargers feature fast and full benefit of your batteries at low life-cycle costs. The chargers are supplied in exclusive and robust designs which can be used in rough environments.

EMTech's focus is to create flexible and easy-to-use products, making day-to-day routines easier and safer. The battery chargers are simple to mount, failure-protected and provide easy monitoring.

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



The exclusive 4-step charging ensures full and fast charging of batteries



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

Main Features

▼ Fast and Full Benefit of your Batteries

- The Charger provides an optimum 4-step battery charging.

Step 1: Boost Mode with max. permissible constant current passing into the battery.

Step 2: Extended Boost Mode where the voltage only rises with 0.066V/cell and maximum current is maintained.

Step 3: Final Charge Mode Voltage is stable and the current progressively decreases.

Step 4: Standby and Maintenance Mode where voltage is stable and current running.

Temperature sensor is used to compensate the charge voltage to obtain fully charged batteries.

▼ Low Life-Cycle-Cost - The Switch Mode Topology Charger supplies a well-regulated DC voltage which avoids battery damages and gasification.

This method ensures long battery lifetime, low disposal costs and minimum charging time.

▼ Parallel Operation - The Charger can be used in parallel and redundant systems to ensure reliable power.

▼ Protection - The Charger is failure tolerant and protected against reverse polarisation, over-voltage, overheating and short circuits.

▼ Permanent Installation - The Charger can be permanently installed as power supply and can withstand parallel loads to simultaneous users/batteries.

▼ Flexibility - The Charger can easily be adapted to other voltages, trip points, parallel function and temp compensation, through simple DIP-switch interface.

▼ Easy Monitoring - The Charger's LED panel provides easy overview of input, temperature, regulation, power limit and load.

▼ External Control - The Charger provides a remote signal which can be used for external alarms or displays.

▼ Silence - The Charger is supplied with a temp. controlled fan which only starts when approx. 40% output power is drawn and speeds up according to increased current.

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 extensive 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 with 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 switches 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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