



powergen



[www.batterychargerpowergen.it](http://www.batterychargerpowergen.it)  
...gen.biz  
...gen.eu

[info@batterychargerpowergen.it](mailto:info@batterychargerpowergen.it)

conformity to the directives 89/336/CEE  
and 73/23/CEE and CE marking.



the complete line of battery chargers



powergenprocessor

# the complete line of battery ch

Powergen battery chargers are designed to recharge medium and large capacity traction and start lead-acid batteries and are the result of the founding members' forty-year experience in the field of battery chargers, in the application of microprocessor control systems which constantly monitorize the basic parameters that assure a correct operation and therefore safeguard the battery's life.



Easy data download

 **BatMon**

Versions  
Wa  
Wo-Wa  
Air Mix



 **Sirius**

Versions  
Wa  
Wo-Wa  
Air Mix



 **Digit 3001**



 **Smart 3000**



 **Compact**

**BATMON** is a battery monitoring instrument developed specially to meet the needs of industrial, motive and stationary battery systems. It is based on microprocessor technology and assembled with SMD surface mount device components and it is equipped with:

- hall sensor for battery current measures,
- sensor for electrolyte temperature measures,
- sensor for electrolyte level measures,
- character LCD display (2 rows and 16 columns), and programming of all parameters; you can do the above mentioned programming of all parameters in the BATMON directly, through the remote or PC
- led display for status and alarm indication.
- Optional USB interface and dedicated software

**BATMON** could be used with different types of battery and could work with nominal battery voltage from 24V to 96V, with the preselected parameters, the battery capacity and the ageing included.

Once connected to the battery, BATMON controls and monitors the entire discharging cycle measuring and tracking various battery performance data including battery voltage, current, temperature, calculating the discharged capacity during forklift operations. The discharged capacity is calculated referring to the battery discharging curve at different discharging current and to the relation curve between battery capacity and average electrolyte temperature.

**BATMON** supervises the whole charge cycle keeping all the battery measures and parameters under control; if **BATMON** registers a temperature rise of the battery over threshold, will signal it through an alarm with a red led.

**SIRIUS** is a battery charger equipped with a modular and flexible microprocessor control module.

The control module consist of a mainboard, daughter cards, a display card, and various interfaces that can satisfy all requirements connected to battery charging in general, as well as the specific needs of the customer.

In particular, the control module can interface with the power section of a standard battery charger, with a chopper charging system, with a series of external analogue and digital input signals and with a personal computer by means of a standard USB interface.

The module can host an RTx card so that is possible to establish a radio connection for transmitting data with remote control devices.

The control unit can be equipped with a remote Battery Monitor unit in order to achieve an efficient charging system that tracks the battery's actual discharge and re-charge processes.

The Battery Monitor unit, located in the battery compartment of the lift truck, can control and supervise the entire process of discharge and can transmit, at the time of charging, all the settings necessary for the battery charger, for example the charge capacity to be integrated.



 **Revolution**



 **Cemb 3000**



 **Easy 3000**

With many original innovations and the possibility to set each individual parameter, the **DIGIT 3001** battery charger is unrivalled in its field: it is powerful and is designed to suit the most professional users. Featuring a large display which ensures that the parameters are clear and easy to read, the DIGIT 3001 battery charger is ideal for anyone who needs to recharge traction batteries continuously.

The **SMART 3000** series of battery chargers offer excellent performance in recharging open lead-acid batteries. The perfect design of the circuit board, allowing multiple indication of functions and alarms, makes the **SMART 3000** series highly suitable for professional use. With the latest generation micro-processing technology the **SMART 3000** sets a new standard for the cyclical charging of traction batteries.

#### REVOLUTION

The **REVOLUTION** line of battery chargers offers the largest freedom of choice with very contained dimensions, not only as regards the functionality and technology available, but also the very compact size. The ECO series of **REVOLUTION** battery chargers is produced in three-phase and single-phase models and is suitable for charging any type of open lead-acid battery.

#### CEMB 3000 - EASY 3000

The **CEMB-EASY 3000** and **COMPACT 3000** series combine elegant design with excellent no-frills practicality. Achieving the perfect balance between value and versatility, the **CEMB-EASY 3000** and **COMPACT 3000** series are ideal for anyone looking for a battery charger to meet all needs in charging medium and large capacity lead-acid traction and starting batteries.



 **Falcon**  
Series



 **Falcon**  
Compact

#### FALCON SERIES AND FALCON COMPACT

- Luminous display for a direct reading of the charging parameters.
- Possibility to select different charging curves in accordance with the kind of battery and choose among 16 standard curves, preprogrammed and valid for Pb-Acid, GEL.
- Possibility to change the battery voltage and charge current through the button in the front panel. "Soft start" mode and display of the charging cycle, through the led in the front panel.
- Electronic protection and/or fuse against short circuits over voltages, polarity reversal, anomalies.
- Input cable, connection of the battery through Anderson power terminals.
- Alphanumeric signalling of any anomaly.
- Inner self contained ventilation through forced air.
- Efficiency > 85%.
- Mass-produced mains leads.

high frequency



## powergen retrofit kits



kit compact 3000



kit smart 3000



kit digit 3001



Connectors SBEE



Connectors  
ANDERSON-REMA



Powergen S.r.l.  
Via XXV Aprile, 5  
52010 Corsalone - Chiusi della Verna (Arezzo)  
☎ +39 (0) 575-531015 - Telefax +39 (0) 575-511891  
[www.batterychargerpowergen.it](http://www.batterychargerpowergen.it)  
[info@batterychargerpowergen.it](mailto:info@batterychargerpowergen.it) - [borri@elledi.it](mailto:borri@elledi.it)

Skype: powergen-borri

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