## Battery charger on board light electrical vehicles with PbS or NiCd

## Oustomer:

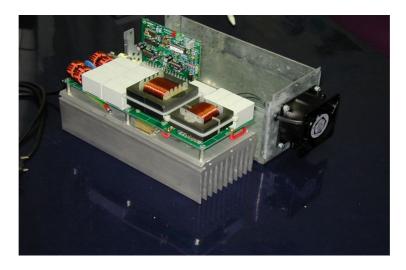
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## Product description:

FAST CHARGE is a family of battery charges dedicated to fast-charging of traction PbS and NiCd batteries in small (P<10 kW) electric vehicles, such as small fork lift drives and golf-car EV. It covers a range of low voltage traction batteries starting with 24V 500Ah and going up to 144V 60Ah units.

The charger is single phase supplied (230V 50/60Hz). Power conversion is microprocessor controlled so as to obtain the maximum charging power from the available RMS current allowed at the mains connection. The power factor close to unity is obtained by adopting the DC-link circuit without the electrolytic capacitors and the appropriate control. Salient features of the FAST CHARGER are:

- <u>pulsed charging</u> controlled by the uP, increasing the average charging current without plates deterioration and with the unity power factor towards the utility network,
- <u>digital charge process control</u> with advanced battery monitoring,
- <u>flexibility</u> of the microprocessor control permitting an easy customization of the unit to various battery technologies, voltages and [Ah] capacities.



## involvement:

Concept, design and manufacturing of the complete product.