

MICROCONTROLLER BASED BATTERY CHARGER



Statcon's Microcontroller based battery chargers are backed-up by company's long experience in the field of power electronics including the experience of designing up to 300KW Battery chargers. The Battery chargers are widely used in the Thermal / Hydro & other power generating stations / Sub stations, Control & Instrumentation & other similar application.

The Microcontroller based Battery chargers are the outcome of the advanced power electronics based on switching technology and use of advance digital embedded systems to ensure the outstanding performance, backed by improved, systematic diagnostics. The Microcontroller based Battery charger gives the highly stable out put to meet the designed load requirements on wide range of the AC input supply.

The LCD Display of the charger panel displays almost all the parameters with user friendly parameter settings & calibration provision which are password protected. The Technology used for AC to DC conversion is fully solid state thyristorised based digitally controlled & is available in wide range from 24V/2000A to 220V/1000A.

TECHNICAL SPECIFICATION

Input Voltage	:	415V \pm 10%, 50Hz \pm 3Hz, 3-Phase AC (Other range on request)
Output Voltage	:	24V/48V/110V/220V (Other voltages on request)
Output Current	:	Upto 1000A (Higher ratings on request}
Voltage Regulation	:	Within \pm 1% according to variation of Input AC mains supply & 0 to 100% Load variation (Diode drop excluded)
Current Regulation	:	Within \pm 2.5% according to variation of Input AC mains supply
Operating Temperature	:	0°C to +55 °C
Output Ripple	:	Upto 2% RMS or as per the requirement
Overload	:	110% continuous
Communication setup	:	Wireless communication through GSM modem or RS232/485 Serial communication port
Type of Enclosure	:	Free standing floor mounting

Other Features:

- a) Temperature Compensation for VRLA Battery
- b) Automatic Float & Boost voltage setting on selection of Battery type & number of cells
- c) Automatic Float to Boost and Boost to Float changeover current setting on selection of Battery AH capacity.
- d) Battery health test facility
- e) AC/DC Voltage & Current calibrations

* The above Parameters are subject to change without prior notice due to continuous improvement in technology.

OTHER PRODUCTS:

- Ground Power Unit for Aircraft starting / Servicing.
- Portable GPU for Helicopters / Light Aircrafts.
- Helicopter Starting Rectifier.
- Frequency Converter upto 140kVA.
- Battery Discharger-Capacity Tester.
- Cell monitoring System for Aircraft Battery.
- Custom built High Power Rectifiers / Controls.
- Load Bank for Alternator / DG set testing.
- AC-DC & DC-DC Converters.
- Battery Chargers from 24V/48V/110V/220V upto 1500A.
- Micro Controller based Battery Chargers.
- Integrated Power Supply for Railway Signalling.
- SMPS based chargers for Telecom (48V) & Power Sector (110V / 220V).
- Embedded System based product development.

Statcon Power controls Ltd.