



The protection of electrical load against power failure is often carried out by battery backed up DC power supplies, providing electrical energy to important loads during mains supply, as well as during mains failure. Battery backed up DC power supplies have, over several decades proved extremely reliable and very economical power supplies. The reliability of a battery backed up DC power supply is defined by the quality of the battery used, as well as the reliable control & operation of the rectifier.

Our range of battery chargers uses latest digital microcontroller based technology for precise control and also offers full range of options for meeting most stringent requirements.



INDUSTRIAL BATTERY CHARGERS

for stationary battery systems
Standard thyristor-controlled rectifiers

Safe
Reliable
Powerful

Features

- Modular construction
- Input isolation transformer
- 2-Pulse (1-Phase) / 6-Pulse (3-Phase) thyristor rectifier bridge
- Fully digital microcontroller based control
- Soft start
- Automatic boost mode selection according to boost / float current set value
- Adjustable DC voltage & current settings
- Smoothing chokes & capacitor bank to reduce ripple
- Isolated current input to controller from hall effect current module
- Electronic battery current limit
- Battery reverse polarity protection
- Parallel redundant operation
- Good dynamic response

Options

- 12-Pulse thyristor rectifier bridge
- Additional reduction of output ripple below 2% RMS
- AC surge protection
- Fuse failure protection
- Annunciator based annunciation systems
- Silicon dropper diodes for load output regulation
- Deep discharge battery isolation contactor
- Digital meters
- RS-485 Modbus interface
- Remote control software
- DC Earth fault and additional alarms, meters and potential-free contacts
- Special colour and higher protection degree
- Temperature compensation for battery
- Top cable entry

Technical Specifications

Nominal Voltage	VDC	12	24	30	36	48	110	220
Input AC voltage	VAC	230 ± 10%; 2-wire, 380/400/415 ± 10%; 3/4-wire						
Input frequency	Hz	50 ± 5%						
DC output current	A	up to 100A						
DC voltage accuracy	%	± 1% under all operating conditions						
Output ripple	%	<2% RMS without battery connected (lower available on request)						
Efficiency	%	70 - 90% typical at full load						
Operating conditions	°C	-10 to 40°C (up to 50°C on request)						
	RH	≤ 95% humidity (non-condensing)						
	m	≤ 1000 m above sea level						
Ventilation		Natural convection						
Cabinet ingress protection		IP20 (upto IP43 on request)						
Colour		RAL 7032/7035 (other colours available on request)						
Standard instruments		Output: DC voltmeter, DC ammeter Battery: Centre zero ammeter Input: AC Voltmeter, AC Ammeter (optional)						
Standard protections		Rectifier protection fuse, DC over voltage cut-off, Electronic current limitation, battery under voltage, AC unhealthy, phase sequence, phase failure, AC & DC circuit breakers, charger over load/load limiter						
Alarms & status indication		AC failure, DC over voltage, DC over current, Battery under voltage, float mode, boost mode, AC on, DC on, charger failure, AC unhealthy						
Charging characteristics		Constant current / Constant voltage & current limit						
Charging characteristics		Trickle / Float cum Boost / Float & Boost / Float & Float cum Boost / Dual Float cum Boost						
Quality environment		ISO 9001:2015						

Data subject to change without notice

Applications



Power Plants



Sub Stations



Industries



Railways



Offshore
Projects



Petro
Chemical



Oil and Gas
Pipeline Systems

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