

THYRISTOR CONTROL

RECTIFIERS

BATTERY CHARGERS



HBL battery chargers use a thyristor controlled rectifier bridge for achieving the desired DC output. Isolation between input and output is provided by a double wound transformer. The output voltage regulation and current limit is maintained by feedback signals from the output to the control circuit. Under normal condition the charger works as a float charger and automatically switches to 'Boost Mode' by sensing the battery current. It returns to 'Float Mode' after the battery is fully charged.

HBL chargers are manufactured under the ISO 9001 Quality System.

FEATURES

- ✍ Available in a wide range of standard and customised models
- ✍ Reliable and fail-safe operation
- ✍ Designed for low maintenance and remote operation
- ✍ User friendly with prominently displayed instrumentation



SPECIFICATIONS

CHARGER TYPE	SP/TP Series *
APPLICABLE STANDARDS	IEC 60146
CHARGER CHARACTERISTICS	Constant voltage/constant current with current limit
INPUT VOLTAGE	230V +/- 10%, Single Phase 415V +/- 10%, Three Phase
INPUT FREQUENCY	50Hz +/- 5%.
OUTPUT VOLTAGE	12V, 24V, 48V, 110V, 220V.
RIPPLE VOLTAGE (STANDARD)	SP - 5% without battery connected TP - 3% without battery connected
OUTPUT VOLTAGE REGULATION	±1% of set value for ±10% input voltage variation, 0-100% load variation
PROTECTION	Input ON/OFF MCB/MCCB Output ON/OFF MCB/MCCB Battery Fuse/MCB/MCCB Current Limit Protection Soft Start Short Circuit Protection Reverse Polarity Protection MOV Surge Suppressor Control Circuit Fuses
METERS	Input Voltmeter, Output Voltmeter, Output Ammeter, Center Zero Battery Ammeter
INDICATIONS	Input ON Output ON Charger ON Float Charger ON Boost
ALARMS	Charger fail ,DC under-voltage, DC over-voltage, Earth Fault All the alarms are provided through an electronic display card. Audio alarm is provided through buzzer and visual indications through LED's. LED test provision and alarm acknowledge / reset is provided through push buttons. One pair of potential free contacts is provided for remote annunciation of all alarms.
OPERATING AMBIENT TEMPERATURE	0 to 50 °C
ENCLOSURE PROTECTION	IP 20
TYPE OF COOLING	Natural Air Cooling
ENCLOSURE CONSTRUCTION	Folded Sheet/MS Construction
PAINT FINISH & COLOUR	Epoxy based matt finish Internal/External: Light Grey
* SP-Single Phase, TP-Three Phase	

☆ The specifications above are standard. Chargers can also be designed and custom built based on customer specifications.

All specifications are subject to change to ensure constant up gradation of technology.



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