

Automatic Float Cum Boost Battery Charger

Features

- Application to charge battery banks used for back up of various loads in Signaling and Telecom systems and simultaneously deliver load requirements of circuits such as Relays, Point Machines, Data logger, Inverters, Control Circuits, Axle Counters etc
- Automatic mode of working based on battery condition
- Manual mode provided by separate Bridge Rectifier
- Spare Control Card to reduce downtime of the equipment
- Suitable for harsh environment in Indian Railways
- Facility to charge upto 2 cells of 2V each above nominal cells
- Protected against overload, Short Circuit & Reverse Battery
- Potential free contacts for LOW DC output

Indications

- Mains On
- Working Mode (Auto Float / Auto Boost / Manual)
- Auto Mode Fail by Flashing LED
- No Of Cells Selected (Nominal-N, N+1, N+2)
- Input Out Of Range
- DC Output Low
- Mains On But Battery Discharging (MOBD)
- Overload
- Short Circuit
- Reverse Battery Connection

Additional Indications for Units rated 50A & above

- Rectifier Fuse Blown
- DC fuse blown
- Capacitor fuse blown

Controls

- Main ON/OFF switch
- Auto/Manual switch
- Manual Voltage selector switch
- Voltage Control (2.12 - 2.3 V/Cell)
- Current Control (25 - 102%)
- Cell Selector Switch (Auto Mode)

Protections

- HRC fuses at input & output
- Reverse Battery Connection
- Overload
- Short Circuit
- HRC fuses for Rectifiers & Capacitors



**RDSO Specification No-
IRS:S:86/2000**

Specification

Nominal Input	230V AC, Single Phase
Input Variation	160V to 270V
Nominal Output	12V, 24V, 48V, 60V, 110V
Rated Capacity	5A to 80A
Ripple Content	< 5% rms for Signalling < 2 mV Psophometric for Telecom < 50mV pk-pk & 10mV rms for Axle Counter
No Load Current	< 10% of the Rated Input Current
Efficiency	> 75% at Rated Input Conditions
Power Factor	Better than 0.7 At Rated Input Conditions
DC Regulation	± 0.05 Volt per cell
Temperature Rise	< 65 °C
Isolation V	2 kV rms
Insulation Resistance	> 10 MΩ for Unit > 1000 MΩ for Transformer & Choke
Operating Temp	0 to 55 °C, 90% RH (Non Condensing)
Insulation Class	B