



UNIVERSAL INSTRUMENTS MFG. CO. PVT. LTD, BANGALORE – 560 058 - INDIA

SALIENT FEATURES OF BATTERY CHARGER

- Thyristor (SCR) Controlled 6 pulse rectification for low harmonics.
- Electronically protected against overload and short circuit.
- Low ripple content upto 0.5% r.m.s by dual line choke & filter capacitor.
- Excellent line and load regulation.
- High efficiency.
- Low noise, reliable and trouble free operation.
- Compact design with/without integral DCDB.
- Suitable for Sealed maintenance free/tubular lead acid/NiCd battery.
- Custom built to specification.

TYPES AVAILABLE

Float cum Boost

- Single rectifier circuit.
- Operation in either Float mode to feed load and trickle charge battery or in boost mode to charge battery.

Float and Float cum boost charger

- Two independent rectifier circuits.
- Float charger feeds load and Float cum Boost charger charges battery.
- Float cum boost charger can function as Float charger also.

Dual Float cum boost charger with one battery bank

- Two independent rectifier circuits.
- Each capable of operating in either mode. Hence redundancy available.
- Simultaneous operation of both chargers in boost mode is not possible.

Dual Float cum boost charger with two battery banks

- Two independent rectifier circuits.
- Each capable of operating in either mode.
- Each with separate set of battery, with necessary interlocks. Hence battery redundancy available.
- Simultaneous operation of both chargers in boost mode is not possible.
- Suitable for mission critical installations.



STANDARD SPECIFICATIONS OF BATTERY CHARGER

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| Operating voltage | : AC 415V +/- 10% 50Hz., 3 ph., 4 Wire. |
| Output | : Suitable for 24/48/110/220 V SMF/Lead Acid/NiCd Battery, upto 500A |
| Ripple | : < 2.0 % of max. rated voltage. |
| Regulation | : Better than +/- 1.0% max. rated voltage. |
| Protection | : HRC fuses & MCB/MCCB in A.C Input. Semiconductor fuses and RC snubber for SCR. D.C MCB/MCCB in D.C output and Battery ckt. Against overload and shortcircuit. Blocking diode in D.C output |
| Metering | : Analog meters for output/Battery voltage, output current and Battery charging/discharging current. |
| Indications | : Mains ON R,Y,B., Charger ON, Float mode & Boost mode. |
| Alarms | : Load under voltage, Load over voltage, Charger fail, Battery earth leakage and mains fail. |
| Operating Amb. Temp. | : 0 – 50 Deg. |
| Cabinet | : Free standing panel in IP42 construction, 1.6/2.0 mm sheet steel, Powder/Epoxy painted, bottom cable entry. |
| Auto changeover from Float mode to Boost mode & vice versa. Manual selector switch. | |

OPTIONS

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|--------------------|---|
| Operating voltage | : AC 380/400/440 V +/- 10% or 15%, 50Hz., 3 ph., 3/4 Wire. AC 220/230/240 V, 1 ph., 50Hz. |
| Metering | : AC meters/Battery trickle charging current, Digital. |
| Alarms | : Fuse fail/Load on battery/AC under & over voltage/any other. |
| Communications | : Isolated 4 – 20 mA transducers for output/battery voltage & current. Potential free contact for alarms for remote or SCADA connection. RS 485 port. |
| Cabinet | : IP 55. |
| Distribution board | : Integral with MCB/MCCB or separate compartmentalized panel. |

For Requirements of DC Systems, Your one Stop Solution

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