



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

### SALIENT FEATURES OF BATTERY CHARGER

- Thyristor ( SCR ) Controlled full wave rectification.
- Electronically protected against overload and short circuit.
- Low ripple content upto 0.1% r.m.s by filter capacitor.
- Excellent line and load regulation.
- High efficiency.
- Low noise, reliable and trouble free operation.
- Compact design with 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.





## STANDARD SPECIFICATIONS OF BATTERY CHARGER

Operating voltage	: AC 230V +/- 10% 50Hz., 1 ph., 2 Wire.
Output	: Suitable for 24 / 30 V SMF/Lead Acid/NiCd Battery, upto 30A
Ripple	: < 0.5 % of max. rated voltage.
Regulation	: Better than +/- 0.5 % max. rated voltage.
Protection	: Two pole MCB in A.C Input. Two pole MCB in D.C output and Battery path. Against overload and short circuit. Blocking diode in D.C output
Metering	: Analog meters for load/Battery voltage, output current and Battery charging/discharging current.
Indications	: Mains ON, Float mode & Boost mode.
Alarms	: Load under voltage, Load over voltage, Battery earth leakage and mains fail.
Operating Amb. Temp.	: 0 – 50 Deg.
Cabinet	: Free standing panel in IP 32 construction, 1.6/2.0 mm sheet steel, Powder/Epoxy painted, bottom cable entry. Batteries are mounted at the bottom compartment of the charger.
Auto changeover from Float mode to Boost mode & vice versa. Manual selector switch.	

## OPTIONS

Operating voltage	: AC 220/230/240 V, 1 ph., 50Hz, 3 ph., 3/4 Wire.
Metering	: 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**

## UNIVERSAL INSTRUMENTS MANUFACTURING COMPANY PRIVATE LIMITED

**Factory** : 268A, 4<sup>th</sup> Phase, 1<sup>st</sup> Cross,  
Peenya Industrial Area,  
Bangalore – 560 058. India.  
Ph : +91-80-28394289 / 28394907 / 28396219  
Fax : +91-80-28396583  
Email : [uni\\_insta@dataone.in](mailto:uni_insta@dataone.in), [uimcobl@yahoo.com](mailto:uimcobl@yahoo.com)  
Web : [www.uni-insta.in](http://www.uni-insta.in)

**Branch** : 16A/19, Jyothi Building,  
WEA, Ajmal Khan Road,  
Karol Bagh, New Delhi – 1110 005  
Ph : +91-11-25728995  
Fax : +91-11-2572725046  
Email : [uicodelhi@airtelmail.in](mailto:uicodelhi@airtelmail.in)  
[uimcodelhi@yahoo.co.in](mailto:uimcodelhi@yahoo.co.in)