

ALPHA SERIES

Features :

Application

- Automobile charger
- DG set battery charger
- SMF battery charger
- Switch tripping unit
- Traction battery charger

- Alpha series charger is to keep batteries in healthy condition having boost/trickle mode operation.

1. Liberally designed components with stringent regulation & ripple % for efficient charging.
2. Boost charging current adjustment is through tap selector switch or variac or constant current design.
3. Voltage or current sensing base controller for boost to trickle & vice versa change over.
4. Protection features can be provided as per customer requirement.
5. Floor/wall mounting cabinet. Provision to mount battery set in charger cubicle possible. Wheels can be provided for ease of mobility.

BOOST CUM TRICKLE CHARGER



Schematic diagram of Alpha Series

DELTA SERIES

Features :

Application

- Telephone Exchange charger
- PLCC equipment charger
- Small Sub Station charger

- Delta series is economical common charger design to boost/trickle charge battery set & simultaneously feed DC load.

1. Output voltage is controlled with in $\pm 1\%$ of nominal rating with $\pm 10\%$ variation in input voltage, $\pm 5\%$ variation in input frequency and 20% to 100% load current variation.
2. Voltage regulation is achieved either through SCR controlled charger or through motorized variac.
3. The Charger feeds DC load & simultaneously trickle charge battery set in Float mode & boost charge battery set and simultaneously feed DC load through dropper diode bank in Boost Mode.
4. DC contactor ensures automatic take over of load by the battery when main AC supply fails.
5. Protections like fuse failure, DC O/V, DC U/V DC fail, earth leakage, AC U/V etc. can be offered.

FLOAT CUM BOOST CHARGER



Schematic diagram of Delta Series

BETA SERIES

Features :

Application

- Large switch yard charger
- Sub station charger
- Captive Power Plant charger

- Beta series is separate Float and Boost Full wave half controlled NO-break DC system incorporating features of reliability/redundancy.

1. Float Charger feeds DC load and trickle charge the battery set. The boost charger operates independently & simultaneously to Boost charge the battery set.
2. Redundancy offered for Float & Boost modes in separate Float & Float cum Boost design or dual Float cum Boost design. The change over is either automatic or manual.
3. Servo (motorised variac based) scheme can be offered.
4. Protections like fuse failures, DC O/V, DC U/V DC fail, earth leakage, AC U/V etc. can be offered.
5. DC contact or ensures automatic take over of load by the battery when main AC supply fails
6. Sophisticated charger having Microprocessor based design with SCADA & touch screen control for critical application.

FLOAT & BOOST CHARGER (Secured DC Power Supply-UPS)



Schematic diagram of Beta / Gama Series

GAMA SERIES

Features :

Application

- Power Plant charger
- Large capacity charger

- Gama series scheme identical to BETA series charger except full wave full controlled rectifier design.

1. Lowest ripple factor offered for critical DC loads like Numerical relays etc.
2. Redundancy in both modes can be offered for flexibility of operation.
3. Protections like fuse failures, DC O/V, DC U/V DC fail, earth leakage, AC U/V etc. can be offered.
4. DC contact or ensures automatic take over of load by the battery when main AC supply fails.
5. Sophisticated charger having Microprocessor based design with SCADA & touch screen control for critical application.