

Float cum Boost Chargers

Input - 230V AC 1-Phase, Output - 30V /15 Amps
 Double redundancy with 2 sets of battery bank
 Float cum Boost Charger
 Made for Crompton Greaves Ltd., Mumbai

Special features



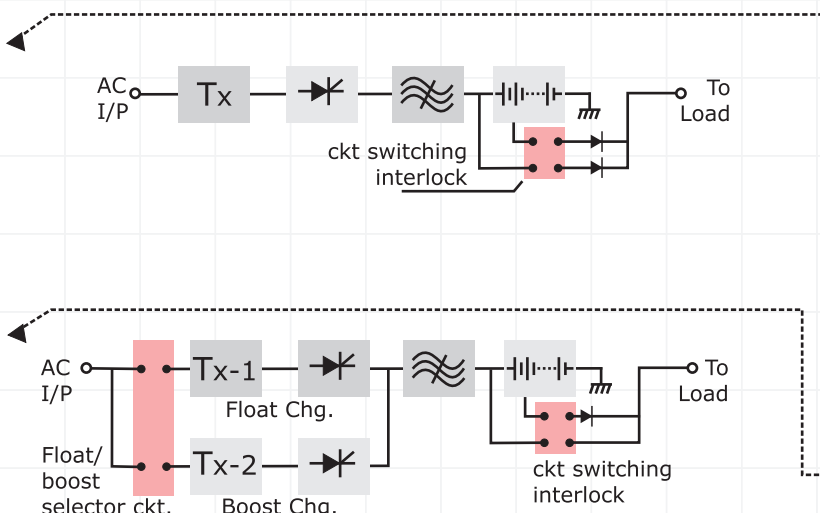
- Unique Micro controller technology.
- Can Handle wide Input supply variation from -20% to +25%.
- Eliminates need for human judgement, hence avoids a risk to batteries which occurs due to erroneous mode selection, thus increasing the life of batteries.
- Provides protection with annunciation for almost all battery & chargers related faults.
- Manual modes of operation also provided.
- Senses dv/dt and di/dt for precise control.
- Uses combination of constant voltage and constant current charging.

Applications-

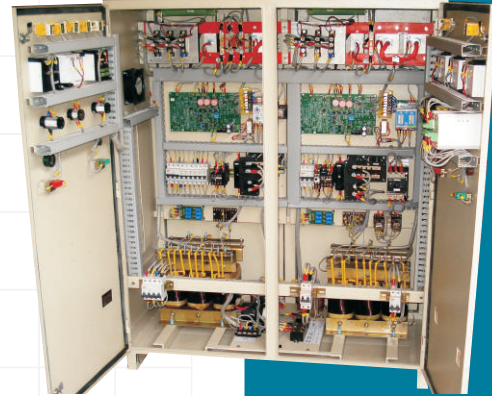
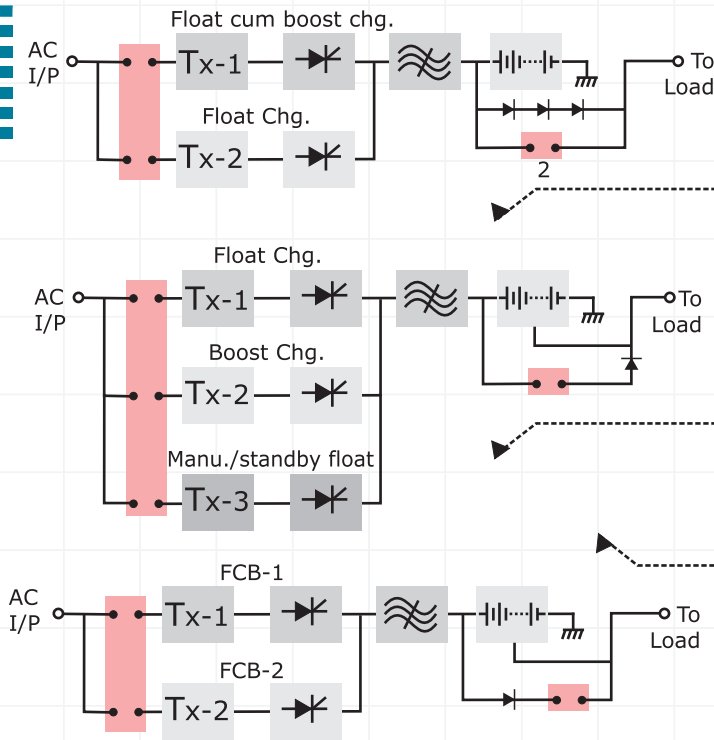
- Substation batteries, NICD batteries, Railway's traction & other batteries, D.G. set batteries, Telecom and DC power system.

Configuration-

- These chargers can be made as per required configuration. Choice of configuration depend on the criticality of application, some of the most preferred configurations as are as follows-
 1. Float cum Boost battery charging with single set of transformer rectifier.
 2. Float & boost chargers with separate transformer rectifier & controller circuit.



Input - 550V AC 3-Phase, Output - 110V / 40 Amps
 Float & Float cum Boost Charger
 : Made for Furnace fabrics, Zambia Project



Float cum boost along with standby float charger in same cubical.

Float, boost charger along with standby float charger.

Float cum boost in 1+1 configuration in one

Digital Prologic

.. a brain for Battery Chargers.



Eliminates need of human judgments, hence avoiding risk to batteries, which occurs due to erroneous selection of modes, thus increasing effective life of batteries

- Only digital Automatic Float / Boost Switch for battery chargers
- Intelligent Selection circuit for auto changeover between Float & Boost Modes
- Sensing of Charging Voltage, Charging Current with respect to time (dV/dt-di/dt)
- Displays of Voltage, Current & all Faults (Annunciation) for battery & charger
- Eliminates failure of any system using Battery as a back up, since batteries are always kept charged in an appropriate condition.

Minimum Details required for designing charger for any requirement

- 1) Battery's Rating in terms of Voltage & AH(or Charging Current)
- 2) Type of Battery, viz SMF, Lead Acid, Ni-Cd etc.
- 3) Load Current & Duration if required
- 4) Input System rating, e.g. 1-Phase, 3-Phase (3 or 4 wire) with voltage range
- 5) Type of control required, for e.g. Thyristor, or auto transformer (any specific or un-controlled)
- 6) Type of charging - FCB (Float cum Boost or Float & boost or double redundancy)
- 7) Any Specific Protections & Annunciation if required
- 8) Application of the system

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