



INPUT VOLTS : 180-260 V AC, 50 Hz +/-2 Hz

OUTPUT VOLTS : 12V /24 V / 48V DC

OUTPUT AMPS : 5 / 10 / 20 / 40 Amps OR (N+1)

1.0 Introduction:

FCBC : Float - Cum -Boost charger is functionally a charger. It have two operating modes first Float mode and second boost mode. Float Cum Boost Charger are used for charging batteries at sub station / Power House Protection circuit and Telecom Exchange. These are used in places where the no break on Power supply is required. The float charger used in telecommunication consists of filler circuit to ensure continues power supply.

The Float part of the Charger remains in Circuit even when the power is driven from batteries.

- Operates on Single Phase or three Phase supply.
- Department of Telecommunication
- Best for protection circuit Power House and Sub Station etc.
- Designed for continuous use.

ANDA Telecom Pvt. Ltd.

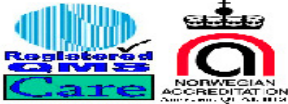
ISO 9001:2000 Certified Company

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- The charger has two modes. Float and boost. In this float mode, the FCBC supplies the DC load and the trickle charging current of the battery. Normally the _7. will be floated across the FCBC. Boost mode is meant for charging the battery.

Automatic charging of Battery is possible in the float mode. In this mode, when the current drawn by the battery exceeds the set value, the charger will automatically charge mode to charge the battery. once the battery current fails the charger returns to float mode. During mains fail, charger remains OFF and load supplied by the battery.

- **Function:** Power House FCBC are designed to supply continuous power to the DC load and simultaneously charge the batteries connected. Input supply form 415V. AC 3 Phase or 220V. AC 1 Ph. is converted to regulated DC. The charger has two independent systems.

2.0 Technical Specification:

1. Type of Equipment :	Battery Charger
2. Input Voltage :	180-260V, Single Phase, 50 Hz+/-2Hz
3. Ambient Temperature :	55 Degree Celsius max.
4. Output Voltage :	12V /24 V / 48V DC
5. Output Current :	5 / 10 / 20 / 40 Amps
6. Panel Meters :	Output Voltmeter
Charging Ampere Meter	Available
7. Switches :	Mains ON/OFF
Output ON/OFF	
8. Potentiometer :	Charging Voltage
Charging Current	
9. Indication Lights :	Charger Mains On (Green)
Charging	On (Green)
Battery Reverse	(Yellow)
AC Fuse Fail	(Yellow)
10. Dimensions :	19" RACK MOUNTABLE 3U/4U

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3.0 Technical Description:

The Battery Charger has been designed to charge the batteries used in Trolley Electric Starter, aircraft battery 24V and other batteries in specified range. The singlephase mains supply is first fed to triac Q1 and then steps down through transformer TX1 and is fed to a bridge BR1. Rectified output thus obtained is filtered by a LC filter consisting of L1 & C1 thus reducing the ripples to 2%. The bleeder resistance Rb1 is use to provide minimum latching current to thyristors. Please refer to the circuit diagram provided in the manual.

The electronic control card CC1 provides all features like constant current, maximum output voltage overcharging (trip & indications). Function of this card is described in the following paragraph.

3.1 Description of Control Card (CC1)

The charger control card take power input through transformer TX2 and generates +12V and -12V DC supply. Charger is completely automatic and this is controlled by electronic controller. Purpose of this controller is to produce firing pulses for TRIAC in synchronized fashion to provide voltage regulation and to provide limit in battery charging current.

3.1.1 Metering

For metering there are 2 DPMS (3½ digit). One for current and another for voltage. The current meter takes input from shunt and voltmeter takes input from o/p DC.

Application: Float / Boost chargers are must in Power Substations. Generating Stations, Telephone Exchanges etc. for control / monitoring systems, tripping circuits and supplying DC Power source.

ORDERING INFORMATION

48 Vseries	24 V series	(N+1) 2Bseries
AT 48V 10A	AT 24V 10A	AT 48/24V 2B10A
AT 48 V 15A	AT 24 V 15A	AT 48/24V 2B15A
AT 48V 20A	AT 24V 20A	AT 48/24V 2B20A
AT48V 25A	AT24V 25A	AT 48/24V 2B20A

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