

## INDUSTRIAL BATTERY CHARGERS



- Material Handling Equipments
- Substations
- Automotive & Generators
- EV Vehicles

Marketed by



**AUTOMOTIVE PRODUCTS COMPANY FZCO**

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**Made in India**

## TC SERIES BATTERY CHARGERS

TC Series battery chargers are comes with taper current (DIN41772) profile. Due to taper current profile battery life will be enhancing moderately. These chargers are used to charge C5 rating traction batteries like flooded batteries, VRLA batteries & Gel batteries of 12V, 24V, 30V, 36V, 48V, 72V, 80V & 110V and Current starts from 5amps to 200Amps

The main application of this chargers are material handling applications like stackers, forklifts, Reach truck's, Articulated forklifts, VNA's, Golf cart vehicles & AGV's etc.

## INNOVATIVE FEATURES

- Microprocessor based electronic circuit to control the charging profile.
- DIN 41772 Wa charging profile suitable for single shift, two shift & three shift operations.
- Auto cut off feature, when battery is 100% charged by using dV/dT charge control.
- TC series chargers having a multiple feature of Normal charging, Equalise charging, Initial charging and Desulphation charging (Only in selected models).
- TC series chargers can be used for opportunity charging.

## BENEFITS

- Made in India chargers, with long life and durability.
- Cost effective & better quality.
- TC charges are comes with transformer based, SCR & Diode controlled technology, due to this failure are less & it can withstand voltage fluctuations & high surges.
- Efficiency : >85%.
- Bypass options are available in cases of PCB fails, to avoid 100% breakdown of chargers.
- LED & Seven segment LED display to indicate charging voltage, charging current, charging time, AH & Fault codes.

**Made in India**

## CC SERIES BATTERY CHARGERS

CC Series battery chargers are comes with constant current profile. Due to constant current all the cells will receive equal amount of current. In order to this battery will get charge & discharge equally.

These chargers are used to charge C5 rating traction batteries like flooded batteries, VRLA batteries & Gel batteries of 12V, 24V, 30V, 36V, 48V, 72V, 80V & 110V and Current starts from 5amps to 200Amps

The main application of this chargers are material handling applications like stackers, forklifts, Reach truck's, Articulated forklifts, VNA's, Golf cart vehicles & AGV's etc...

## INNOVATIVE FEATURES

- Microprocessor based electronic circuit to control the charging profile.
- Constant Current charging profile suitable for single shift, two shift & three shift operations.
- Auto cut off feature, when battery is 100% charged by using dV/dT charge control.
- CC series chargers having a feature of Normal charging & Equalise charging. charging, Initial charging and Desulphation charging (Only in selected models).
- CC series chargers can be used for opportunity charging.
- Enhance battery life, No overcharge & undercharge.
- Protection against reverse battery or wrong voltage battery.
- Protection against AC over voltage & under voltage.

## BENEFITS

- Made in India chargers, with long life and durability.
- Cost effective & better quality.
- Efficiency : >85%.
- LED & LCD display to indicate charging voltage, charging current, charging time, AH & Fault annunciations.

**Made in India**

## IFC SERIES BATTERY CHARGERS

New batteries are received either in un charged, dry charged or wet charged condition. Uncharged batteries need to be filled with electrolyte and need to have several charge and discharge before use. This process is called INITIAL CHARGING.

Dry charged batteries are those where the plates are charged and the battery shipped without electrolyte. Such batteries have to be filled with electrolyte at the site and need to be charged before use.

This process is called First time charging. The actual current and duration are specified by the battery manufacturer.

For the above mentioned applications, Ampco developed a Battery Charger called IFC charger.

The IFC charger provides constant charging current & it can vary from 5-100% & providing electronic timer can be set from 0-99 hours.

The IFC charger provides up to four battery voltage selections of 12V/24V/36V/48V/72V/ 80V/110V batteries.

## FEATURES

- Available in three phase only.
- Front panel LED and LCD display indicates Charging voltage, Charging Current, Time, AH & Fault codes.
- Potentiometer for setting charging current.
- Electronic timer for setting charging duration.
- Battery voltage selector switch for selecting required voltage.

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## AMPCO LI SEREIS BATTERY CHARGERS

Our 0.8KW to 20KW energy-efficient smart charging system, engineered for excellent power density, supports multiple battery chemistries, extending battery life and maximizing vehicle uptime- empowering your business to perform at its best"



### FEATURES

#### > HIGH EFFICIENCY

Utilizing Phase Shifting Full Bridge Convertor technology. Li Series offers peak efficiency at 92% and a power factor 0.99.

#### > COMPACT DESIGN, HIGH POWER

Light weight, compact design and high output power enabling dense installations in limited spaces.

#### > MODULAR FLEXIBILITY

Modular designs ensures continuous operation, even if one module fails

#### > PRECISION CHARGING

Charge profiles are designed for both Pb and Li-ion batteries, focusing on balanced charging, battery longevity and specification needs.

**Made in India**

## LI1 SERIES 0.8KW / 1.5KW / 3KW / 6KW



### SPECIFICATIONS:

➤ INPUT POWER	Single phase 180V-260VAC, 50/60Hz
➤ POWER FACTOR	0.99
➤ PEAK EFFICIENCY	92%
➤ BATTERY TYPE	Lead acid/AGM/GEL/Li-Ion
➤ OUTPUT VOLTAGE	12V/24V/36V/48V/60V/80V
➤ OUTPUT CURRENT	5A-100A
➤ INGRESS PROTECTION	IP20/IP67
➤ CONNECTIVITY	CANbus Ready
➤ COOLING	Forced cooling
➤ OPERATING TEMPERATURE	-20°C to 55°C
➤ HUMIDITY & ALTITUDE	0% ~ 75%, non-condensing.
➤ APPLICATIONS	Semi Electric stacker, Fully Electric stacker, Golf Cart, Floor Cleaning machines.

**Made in India**



## LI3 SERIES 3KW/6KW/10KW/20KW



### SPECIFICATIONS:

➤ INPUT POWER	Three phase 380V-450VAC, 50/60Hz
➤ POWER FACTOR	0.99
➤ PEAK EFFICIENCY	92%
➤ BATTERY TYPE	Lead acid/AGM/GEL/Li-Ion
➤ OUTPUT VOLTAGE	12V/24V/36V/48V/60V/80V
➤ OUTPUT CURRENT	50A-200A
➤ INGRESS PROTECTION	IP20
➤ CONNECTIVITY	CANbus Ready
➤ COOLING	Forced cooling
➤ OPERATING TEMPERATURE	-20°C to 55°C
➤ HUMIDITY & ALTITUDE	0% ~ 75%, non-condensing.
➤ APPLICATIONS	Forklifts, Reach trucks, Articulated Forklifts, VNA's.

**Made in India**