BATTERY CHARGER

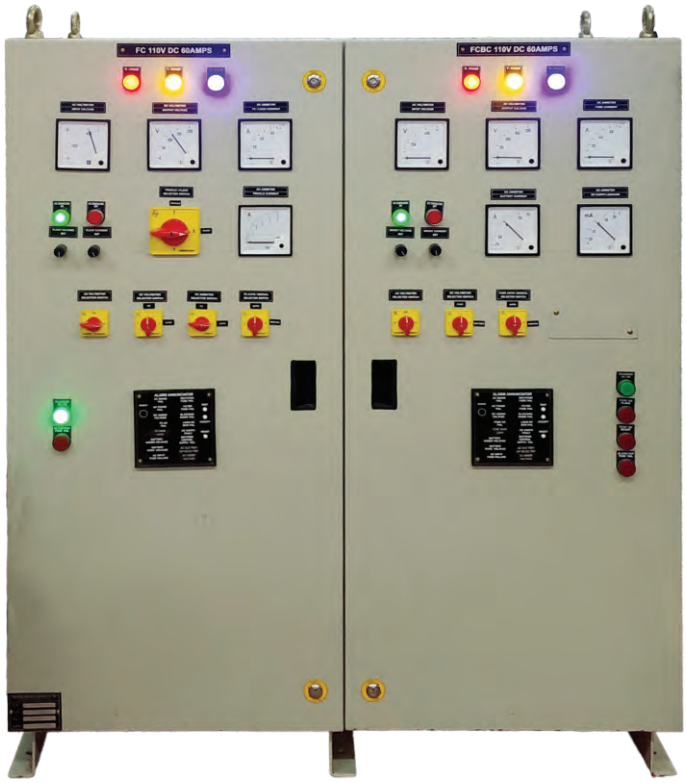
The ICD Battery Charger is designed to supply required DC Voltage and Current to the connected load and recharge the Battery on boost charging over it maintains the battery in float mode. The Battery Charger Provide regulated DC output form 1 Phase or 3Phase AC Source with ±10% variation in the input and perform satisfactorily under various load condition. The charger select automatically float and boost mode charging when discharged battery is connected. The Battery Charger ensures complete isolation from power supply by transformer and circuit design with high end micro controller and state of control scheme. ICD Battery charger is suitable for lead Acid Battery VRLA, Non VRLA and Ni-Cd Battery.

SALIENT FEATURES

- Micro controller based design and sophisticated control scheme ensure voltage and current regulation throughout range
- Input Current limit by soft start when charger is ON ■ LC Filter of adequate rating to limit required level of ripple
- Short circuit and over load protected
- Automatic float/Boost changeover depends on charger status
- Auto phase reversal is built in when supply phase is reversed
- Over voltage cutoff ensures load and battery banks are safe and secure
- Sophisticated panel manufacturing with 7 tank painting process.

SCHEMES

- Float cum Boost as combined
- Float Charger and Boost Charger as separate
- Redundant float cum boost charger
- Float charger and float cum boost charger



SPECIFICATION

PROTECTION	■ AC Input circuit breaker ■ AC input fuses ■ Fast acting semiconductor fuses for rectifier protection	■ DC Output circuit breaker ■ DC Output fuses ■ Filter protection fuses ■ Fuses for control circuit protection
SAFETY FEATURES	■ Soft start on DC Side ■ Short circuit protection	■ Battery reverse polarity ■ Output Current limit
TRIP PROTECTION	■ AC Overload ■ DC Earth Fault	■ AC Earth Fault ■ Over Temperature
INDICATIONS/ ANNUNCIATION	■ Input Supply Indication ■ Charger in float mode ■ Charger Over Voltage ■ Charger Fail/Trip	■ Charger ON ■ Charger in Boost Mode ■ Charger Over Load
ROUTINE TEST	■ Dimensional Measurement ■ HV Test ■ Measuring of Ripple ■ Measuring of Efficiency ■ PF and Harmonics ■ Transient response test	■ Insulation Test ■ Function Test ■ Measuring of Regulation ■ Indications & Controls Function Checking ■ Measurement(Optional) ■ Heat Run Test (Optional)
CABINET CONSTRUCTION	■ IP20 or IP42 Enclosures ■ Natural or Forced Cooling	■ Texture / Matt Finish Powder Coated ■ Floor Mounting
ENVIRONMENT CONDITIONS	■ Operating Temperature 0°C to 50°C ■ Humidity Range 0 to 95% RH	■ Storage Temperature -30°C to +70°C