# Battery Charger

## 5-700 A

- Microprocessor controlled Thyristor Technology
- Built in input transformer topology
- Fully Adjustable float, boost and equalizing charge modes with V/I characteristics
- Advanced technology for phase control
- Very low voltage ripple and extended battery life
- High efficiency and low operation cost
- Ability to operate as voltage or current source
- Wide range of options for monitoring
- Improved environmental operation characteristics
- Remote monitoring via RS232 communication port
- Potential free alarm contacts on extended alarm board
- Internal Over Temperature protection
- User Friendly Control Panel

## TECHNICAL SPECIFICATIONS

| DC Voltage | 24VDC | 48VDC | 110VDC | 220VDC |
|---|---|---|---|---|
| **INPUT** | | | | |
| Input Phase | 1Phase/3Phase | | | |
| Nominal Voltage Range | 1x220V or 1x230V / 3x380V or 3x400V ± 15 % – 2 / 4 wire | | | |
| Frequency Range | 47-63Hz | | | |
| **OUTPUT** | | | | |
| Nominal Voltage | 24VDC | 48VDC | 110VDC | 220VDC |
| 1Ph Nominal current | 60A | 15A/30A/40A/60A | 5A/20A/30A/40A/60A/80A/100A/120A/150A | 15A/30A/40A/60A |
| 3Ph Nominal current | 30A/60A/100A/150A/ 200A/250A/400A | 10A/30A/60A/100A/ 150A/200A/250A | 30A/60A/100A/150A/ 200A/ 250A/300A/400A/ 500A/700A | 30A/60A/100A/150A/ 200A/250A/300A/400A/ 500A/700A |
| Max Output Current | 110% of nominal | | | |
| Float Charge Adjustment Range | 80% - 115% of the nominal output voltage | | | |
| Boost Charge Voltage | 80% - 125% of the nominal output voltage | | | |
| Equalizing Charge Adjustment Range | 80% - 125% of the nominal output voltage | | | |
| Current Limit Adjustment Range | 25% - 100% of the nominal output voltage | | | |
| Voltage Ripple | < 1% (with or without battery) | | | |
| Voltage Regulation | < 1% (10% to 100% load) | | | |
| Efficiency | 87% | 89% | 91% | 93% |
| **DISPLAY** | | | | |
| LCD Display Panel | Voltage, Current, Charge and Status Information | | | |
| LED Display Panel | Line, Operation, Fault Indications | | | |
| **GENERAL** | | | | |
| Charger Mode | Automatic / Manual U-I Characteristic | | | |
| Charger Type | Float / Boost / Equalizing Charge | | | |
| Cooling | Forced Cooling with Thermic Controlled Fan | | | |
| Input/Output Connections | Terminals | | | |
| Fuses | Semiconductor Type | | | |
| **ENVIRONMENT** | | | | |
| Operating Temperature | -5 – +50 °C | | | |
| Relative Humidity | 0 - 95% ( non-condensing ) | | | |
| Protection Class | IP 20 (Higher IP Class is optional) | | | |
| **STANDARDS** | | | | |
| Standards | 89/336/EEC (EMC); 62040-1, 62040-2, 62040-3, IEC 950, IEC 439, IEC 146 | | | |
| **OPTIONS** | | | | |
| Dry Contact Card | 4pcs contact alarms / normally(closed/open /Modbus) | | | |
| Parallel Connection | Available | | | |
| Others | Earth Leakage Monitoring, DC Supply & Battery Monitoring, Gauges, Load Voltage Limitation Module / Voltage Drop, Battery Charge Temperature Compensation, IP Protection, Touch panel, LVD, Fan failure monitoring, AC Input Power measurement, Active parallel current sharing | | | |