

# BATTERY CHARGERS AND DC CONVERTERS

DCPS Series

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## IGBT OR THYRISTOR BASED BATTERY CHARGERS AND DC CONVERTERS

The three phase AC input range of thyristor controlled battery chargers are designed for use with vented or valve regulated lead acid and nickel cadmium batteries. For applications where the load is permanently connected to the battery, the constant voltage, current limited DC output is used to simultaneously supply the DC load and recharge the battery.

### Available Configurations

FCBC, FC + BC, FC + FCBC  
DUAL, PARALLEL, STANDBY  
(Suitable for VRLA, flooded  
Tubular/ Plante, Vented/ Flooded NI-CD )  
Full wave full control/ half control  
Thyristorised or IGBT based converters.

### Features:

- 24V, 30V, 48V, 110V or 220V output
- Up to 1500A per charger
- Wide AC supply voltage variations
- Dual, Standby & Parallel operation
- Range of standard alarms built in
- Customised alarm options
- Constant Voltage/ Current limited output
- Use with lead acid or nickel cadmium batteries
- Control and distribution options
- Industrially rugged designs
- IP-42 class panel protection
- RS 485 connectivity
- Modbus/ Profibus/ CAN communication protocol
- Digital Metering and annunciations
- Customizable for variety of configurations

### Applications :

- Power generation
- Transmission & distribution
- On/off shore petro-chemical
- Central emergency power & lighting
- General Industrial
- Aviation grade DC power supply
- Railways
- Defense
- Steel & mining
- Oil refineries and their auxiliaries

**Engineered for Reliability**  
**Manufactured for easy maintenance**



An ISO 9000 and 14000 certified MSME registered manufacturing company

## TENTATIVE SPECIFICATIONS

### AC Input

Supply voltage :	Standard 380V/400V/415V/440V, Optional – 230V, 1 phase
Frequency range :	47 – 53Hz steady state
Power factor :	Approximately 0.7 lagging ( Unity for IGBT based converters )
THDi :	Less than 5% ( only for IGBT based converters)

### DC Output

Charger Type	Nominal Output rating
DCPS24	24V, 25A – 1500A
DCPS30	30V, 25A – 1500A
DCPS48	48V, 25A – 1500A
DCPS110	110V 25A – 1500A
DCPS220	220V 25A – 1500A
Static Regulation :	< +/- 1% of the set value without battery connected.
Ripple Voltage :	< 1% of nominal with or without battery connected.
Efficiency :	70% to 95%, depending on system voltage, current rating & options fitted.
Voltage at load terminals :	As per settings.

### Metering, Protections, Indications & Alarms

A wide range options for metering, protections, indications & alarms are available, including the annunciation panel.

### Mechanical

Degree of protection :	IP 20 Steel enclosures ( optionally IP-42)
Finish :	RAL 7032. Alternatives available

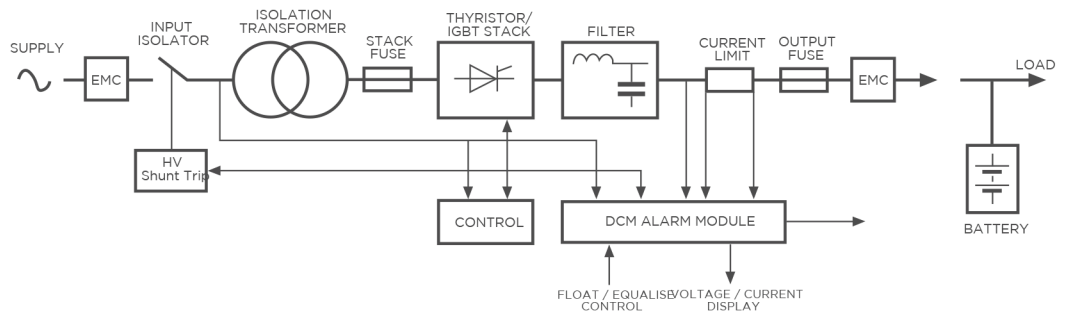
### Communications

RS-485 physical connectivity with Modbus/Profibus/CAN protocol available as optionsD

### Environmental

Ambient Temperature :	10°C to +50°C
Humidity :	Up to 95% relative humidity, non condensing
Altitude :	Up to 1000m at full rating, up to 3000m with de-rated output

**STANDARD CHARGER  
SINGLE LINE DIAGRAM**



Note: These specifications are tentative and only indicates our capability. All systems are designed and manufactured based on the customers specifications and requirements.



### LIVELINE ELECTRONICS

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All information contained in this brochure are subject to change without prior notice.

Our systems are manufactured in an ISO9000 & 14000 certified plant.

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Doc no : LL/BC/C/20-21/Rev-0