



BATTERY CHARGERS

Train Lighting Battery Chargers (TLBC)

As the name indicates, TLBC are used in charging train lighting batteries at depots and yards.



Key Specifications

Input Voltage	415V/230V, 1/3 Phase AC
Output Voltage	110–150V DC
Output Rating	3φ 200/300A · 1φ 40–75A
Warranty	1 Year

Applications

- Train lighting battery charging at depots and yards

Key Features

- Common O/P voltage controller
- Battery current limiting for each battery path, sized to suit batteries simultaneously
- Input high voltage disconnect and battery low voltage disconnect
- Audible alarm on low battery bank voltage
- Indication through bright LEDs or multi-point facia facility

BATTERY CHARGERS

Train Lighting Battery Chargers (TLBC) – Full Specifications

Generic

Suitable for charging of	Train lighting systems
Installation	No
Warranty	1 year

Output

Nominal voltage	110–150V DC
Output rating	3 Phase: 200/300 A; 1 Phase: 40–75 A
Net regulation	+/- 1%
Ripple factor	<= 1%
Battery current limit	120/320 Ah of battery

Construction

Cabinet material	CRC sheet, duly powder coated case
Input high voltage disconnect	Yes
Battery low voltage disconnect	Yes, provided
Display	Analog (standard); customizable on request
Common O/P voltage controller	Yes, provided
Battery current limiting per battery path	Yes
Operating temperature	0°C to 50°C
Storage temperature	-10°C to +70°C
Cooling type	Convection
Humidity	< 95%

Input

Voltage	415V/230V, 1/3 Phase AC
Frequency	50 Hz +/-5%
Power factor (50%–100% load), max	0.75
Efficiency	>= 90%
Dielectric strength	2 KV AC (I/P to O/P & Case)

Protection

AC input circuit breaker	Yes
DC output circuit breaker	Yes
DC over voltage protection	Yes
Battery input fuses	Yes
Charger overload	Yes
Battery charging current limit	Yes
Short circuit protection	Yes
Fuse capacity	63 Amps HRC fuse

Alarms & Indications

Audible alarm on low battery bank voltage	Yes
Input on	Yes
DC over voltage	Yes
DC under voltage	Yes
AC supply fail	Yes
Charger fail	Yes
Rectifier fuse fail	Yes, for thyristor type
Battery fuse blown / battery isolated	Yes
Load on battery	Yes
Battery discharging	Yes
Bright LED / multi-point facia indication	Yes

For detailed requirements and customized configurations, please contact Equipment Controls Company.