

BI016811  
A6474X233  
February 2013

# Operation Manual

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Super Service Battery Charger

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# **2** Your safety

**maintenance, repair**

Only persons who have and can demonstrate a special knowledge of electrics are allowed to work on the electrical system.

Carry out a visual inspection of all the electrical components at regular intervals. In particular check that:

- the wiring and cables are not pinched or trapped.
- the conduits are not abnormally rigid or hard.
- the conduits are not damaged.
- the connectors are securely inserted into the sockets.
- the connections are tight.

Secure wiring and cables only with the proper clamps. Always fasten the clamps completely and with both sides. Never use nails, wire or similar materials for securing.

After finishing repair work, check all connectors and connections to ensure they are tight.

**Before transport****temperatures below freezing**

During transport of this equipment with floor-mounted vehicles at such low temperatures, measures must also be taken to ensure that the parts and devices are not subjected to sudden impact loads. At very low temperatures and on poor roads, the transport vehicle speed must therefore be limited to a maximum of 15 mph (25 kph) for truck transport.

**electronic components**

Electrical and electronic components must be removed for overseas transport or prolonged storage outdoors unless these components or the complete equipment is protected against harmful environmental influences by a suitable packaging.

The electrical cables remain in the equipment. They must be carefully protected against transport damage and soiling of the connections.

**Location**

- locate the charging station away from rain, snow, wet conditions or areas of high traffic when possible
- never place the unit directly above a battery. Gases from the battery will corrode and damage equipment
- Never allow the battery electrolyte to drop on the unit when reading specific gravity or filling the battery
- do not operate the unit in a closed area or restrict ventilation in any way
- Do not set a battery on top of the unit

## Battery charging procedure

After reading the previous descriptions and locating each control, the operator is ready to operate the battery charger. An experienced operator should monitor a new operator's indoctrination to the battery charging procedure.



### IMPORTANT!

**Before start-up, check that daily maintenance has been performed on the unit.**



### WARNING!

**Always wear safety glasses and protective clothing when servicing batteries. Neutralize any acid spills immediately. If acid contacts any part of the body, flush immediately with running water and seek medical attention.**



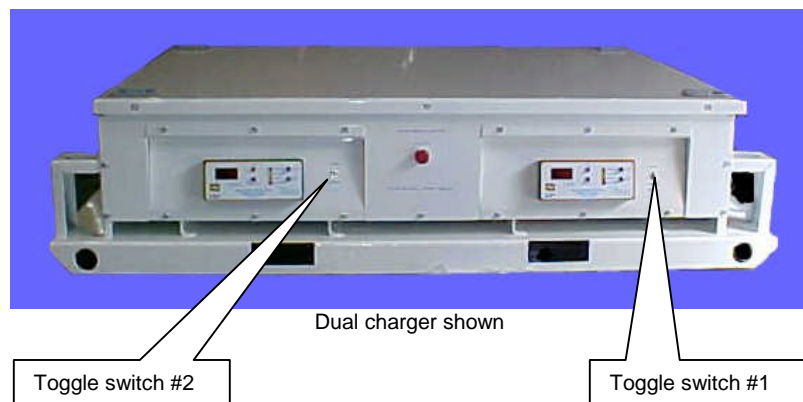
### WARNING!

**Care should be taken at all times to avoid electrical shock from the battery or charger. The charger must be turned off before connecting or disconnecting the lead (s) to the battery.**

## Charging

- ☞ Battery tray covers should be open during charge.
- ☞ Be sure the charger toggle switch is in the "OFF" position (Fig. 4).

**Fig. 4: Battery charger ON/OFF toggle switch**



- ☞ Check plugs and receptacles to be sure they are clean and in good condition.

## Input and output ratings

### D.C. voltage

The Super Service Battery Chargers are factory set to finish at 2.5 volts/per cell to 2.6 volts/per cell (160 vdc – 166 vdc) for lead acid batteries.

### A.C. voltage

Taps are provided for various three phase A.C. input voltages with an A.C. input voltage range of +/- 10% of nominal. (See charger schematic for details)

**Table 2: Transformer tap settings**

Input	TM	TC1	TC2
480VAC, 50HZ, 3PH	1 and 2	H1 and H3	480
575VAC, 50HZ, 3PH	1 and 3	H1 and H4	575

**Table 3: Capacitor tap settings for finish rate adjustment**

6 and 7	5 and 7	4 and 7	6 and 8	5 and 8	4 and 8
↑			↑		↑
Lowest			Nominal		Maximum

## Technical data

This chapter contains the most important technical data on the battery charger. Further data can be found in the spare parts lists. At the end of this chapter you will find information on the bolt tightening torques. Read this chapter through carefully and pay particular attention in particular to the safety instructions.

### Components of the battery charger

#### Technical data sheet

<b>Part number:</b>	<b>LUP01984</b>
Model number:	1500D
Output:	Dual
Voltage/hz:	480/575/60hz
Battery size:	1500
PA kit:	No
Overall length:	approx. 84"
Overall width:	approx. 53"
Overall height:	approx. 20.5"

<b>Part number:</b>	<b>LUP02066</b>
Model number:	1375D
Output:	Dual
Voltage/hz:	480/575/60hz
Battery size:	1320 - 1375
PA kit:	No
Overall length:	approx. 84"
Overall width:	approx. 53"
Overall height:	approx. 20.5"

<b>Part number:</b>	<b>LUP02053</b>
Model number:	1200D
Output:	Dual
Voltage/hz:	480/575/60hz
Battery size:	1200 - 1210
PA kit:	No
Overall length:	approx. 84"
Overall width:	approx. 53"
Overall height:	approx. 20.5"

<b>Part number:</b>	<b>LUP02102</b>
Model number:	850S
Output:	Single
Voltage/hz:	480/575/60hz
Battery size:	750 - 850
PA kit:	Yes
Overall length:	approx. 84"
Overall width:	approx. 35"
Overall height:	approx. 20.5"
<b>Part number:</b>	<b>LUP02103</b>
Model number:	650S
Output:	Single
Voltage/hz:	480/575/60hz
Battery size:	585 - 650
PA kit:	Yes
Overall length:	approx. 84"
Overall width:	approx. 35"
Overall height:	approx. 20.5"
<b>Part number:</b>	<b>LUP02104</b>
Model number:	550S
Output:	Single
Voltage/hz:	480/575/60hz
Battery size:	495 - 550
PA kit:	Yes
Overall length:	approx. 84"
Overall width:	approx. 35"
Overall height:	approx. 20.5"
<b>Part number:</b>	<b>LUP02105</b>
Model number:	1500D
Output:	Dual
Voltage/hz:	480/575/60hz
Battery size:	1500
PA kit:	Yes
Overall length:	approx. 84"
Overall width:	approx. 53"
Overall height:	approx. 20.5"
Special:	With ground check circuit and 125 VAC outlets

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