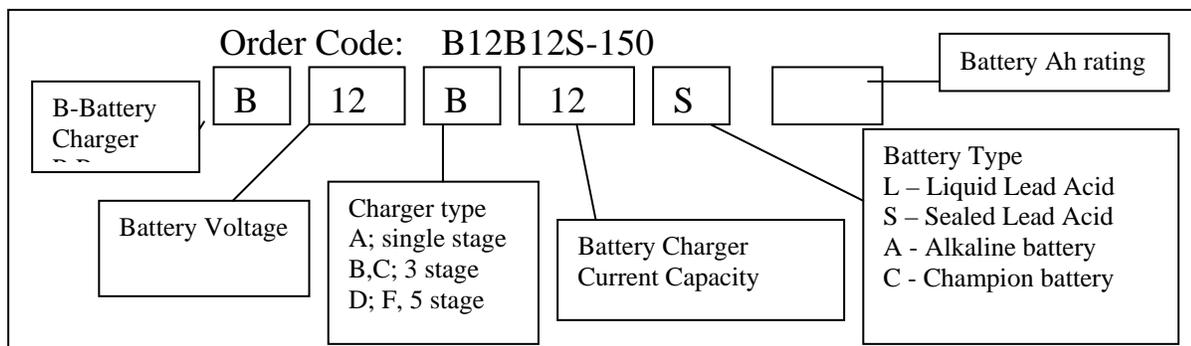


5 stage voltage and current regulated T 500 series battery charger operation manual



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Warning:

- The appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- The battery terminal not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line. The battery charger is then to be connected to the supply mains.
- After charging, disconnect the battery charger from supply mains. Then remove the chassis connection and the battery connection, in this order.
- This charger should not be used to charge non-rechargeable batteries.
- During charging the battery must be placed in a well ventilated area.
- The battery charger must only be plugged-in to an earthed socket-outlet.
- Do not charge sealed or maintenance free batteries with boost or equalize mode of charge. It can cause permanent damage to the battery.

General specifications:

Power input: 230 - 240 V AC 50 Hz
 Power requirement: 1250 W max.
 Input current: 10 A max.

Battery type used for:
 Lead acid type

Note: Type BxxBxLS is a universal charger, fitted with a selector switch to use for either liquid or maintenance free sealed battery.

Type: BxxDxxL	Type: BxxDxxS
Liquid Lead Acid Battery	Sealed Lead Acid Battery

Battery size used for:

Type #	B6Dxx	B12Dxx	B24Dxx	B36Dxx	B48Dxx
Battery cells	3 cells 6V	6 cells 12 V	12 cells 24 V	18 cells 36 V	24 cells 48 V

Battery capacity used for:

For the correct charging current for your battery size please see charger selection chart, also "Terms and Definitions" document available on website: www.batterycharger.com.au

Type BxxD5	Type BxxD8	Type BxxD12
10-20 Amp	12-25 Amp	20-40 Amp
50- 120 Ah	60 - 150 Ah	100 - 240 Ah

Description of operation:

The T-500 series battery charger is suitable to charge batteries used in many different applications. Some of them are battery for car, for boat and ship, wheelchair, sweeping machine, forklift, etc.

The T-TECH 5 stage battery charger is designed to charge lead acid batteries efficiently with the minimum amount of time and also to protect the battery from overcharging saving the battery for a long life of operation.

For the charger types "S" or "L" during the charger the battery load should be disconnected. It would disturb the battery charging level measurements, and may create too high voltages for the load connected to the battery. It continuously measures the charge present in the battery and adjusts the charging current to the optimal level. At the beginning of the charge it provides high current to the battery to achieve a quick rate of charging, this is also used to break down the build up insulation around the battery plates.

At a higher charged level, it gradually reduces the charging current to avoid the loss of much water from the battery.

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“L” series of chargers only:

The battery charging voltage will be taken over the float voltage level to enable the replacement of all charges in the battery cells. The BOOST charge mode will be initiated automatically each time a battery discharge is detected. It also works each time after the battery reconnected to the charger. Unfortunately, at normal charge, not all the cells will charge at the same pace. Therefore some cell will remain not fully charged even after a full BOOST charge. To equalize these cells an EQUALIZE charge is available with this charger. During this mode of charge, the battery will lose more than usual amount of water, which has to be monitored and replaced as you go. The boost charge will take minimum of 2 hours and the equalize charge will take the minimum of 4 hours. During this time a water loss on the battery cells is normal.

“S” series chargers:

In the sealed maintenance free battery the water can not be replaced therefore only the float charge mode should be used for those batteries. In compensation however these batteries are designed to operate correctly with a float charge only.

WARNING:

The sealed lead acid battery will be permanently damaged if the boost or equalize mode is used for charging them.

Control panel indications:

On the front panel of the T-TECH 5 stage charger the following LED lights can be seen

“NO BATTERY” red led

Indicates that there is no battery voltage on the output. After connection of the battery the charger can be started by the green “I” start button.

“STOP”

The light indicates that the charger is stopped charging.

“START” green led

The light indicates that the unit is charging. If the light is flashing the output current is unusually low. The cable connection is may be loose or the battery has a not functioning cell.

“Equalise” green led

The light indicates that the battery charger is programmed to do equalize charging. Until it starts to function it will be flashing about once a second.

“FINISH” green led

The light indicates that the battery is fully charged and ready to use. If the battery is left connected to the charger the float charging will continue to function and keeps the battery charged as long as it is connected.

“FAULT” red

The light indicates that the battery charger after about 18 hours charging couldn't finish all the charging sequences. The battery voltage stayed too low, there is may be a shorted battery cell, or to much leakage within the battery.

“100 %” green led

The charging level reached full charge.

“75 %” green led

The charging level reached 75% of full charge.

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Control panel switch:

Push Button “O” red

For stopping the charge sequence.

Push Button “I” green

Used for starting a charge sequence after it was stopped. If there is no battery voltage detected at turn on this start button will start the voltage on the output leads. This is provided to start a charging to a battery with no voltage on them.

Push Button “E” green

To toggle the a charging mode which includes or not includes the equalize charge.

Isolating breaker.

It is used to isolate the charger from the main input. A magnetic over current protection trip is built into the switch.

Warranty:

T-TECH warrants that each new battery charger supplied, is of good workmanship and is free from inherent mechanical defects, provided:

1. The T-TECH charger is used in accordance the operation manual herein
2. It is used for the purpose it was designed for
3. It is received the proper maintenance and care under the supervision of a competent personnel

The warranty is limited to the repair and or replacement of item supplied by T-TECH, returned to our factory. The warranty period is 1 year from the date of delivery.

Except as authorized in writing, this warranty does not cover any equipment that has been repaired or modified by any party other than T-TECH.

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