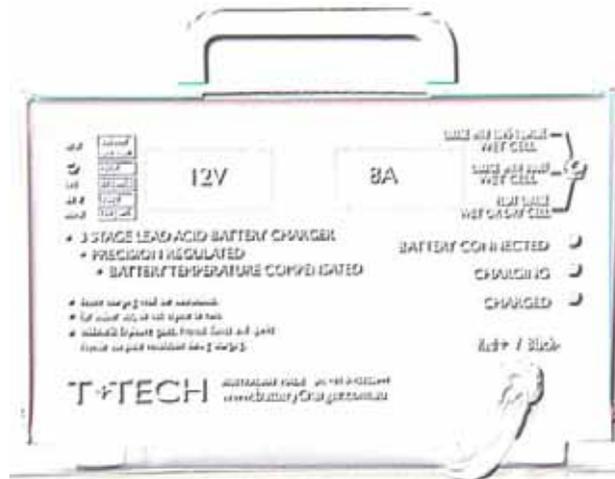


# 3 stage voltage and current regulated T 500 series battery charger

## 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: 150 W  
 Input current: 1.1 A

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.

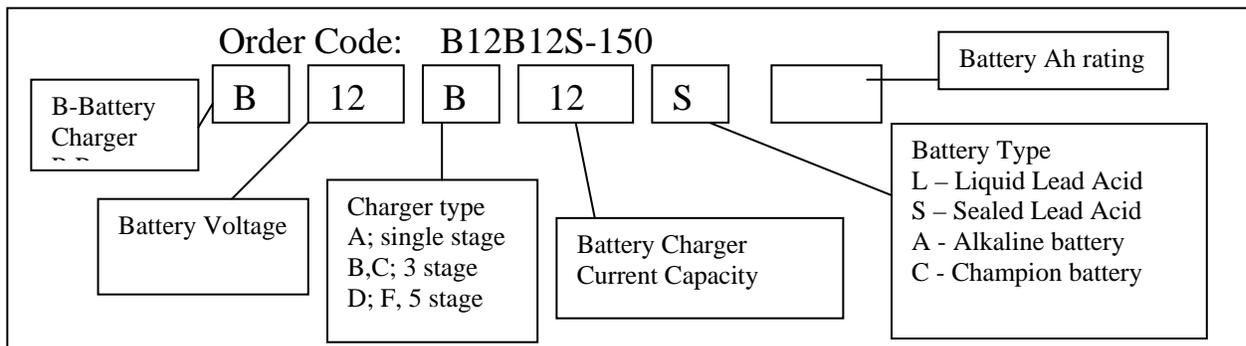
Type:	BxxBxxL	Type:	BxxBxxS
Liquid Lead Acid Battery		Sealed Lead Acid Battery	

Number of cells charged:

Type B6Bxx	Type B12Bxx	Type B24Bxx
3 cells 6 V battery	6 cells 12 V battery	12 cells 24 V battery

For the correct charging current for your battery size please see charger selection chart, and terms and definitions document available on website: [www.batterycharger.com.au](http://www.batterycharger.com.au)

Type BxxB5	Type BxxB8	Type BxxB12
2-5 Amp	3-8 Amp	5-12 Amp
15- 60 Ah	25 - 100 Ah	40 - 150 Ah



# T+TECH

## **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 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.

After initial connections it replaces all the charges in the battery, than it will hold the battery charged infinitely, as long as the battery and the power source is remained connected to the charger.

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.

The battery charging voltage needs to be taken over its operating voltage level to enable the replacement of all charges in the battery cells. The BOOST charge mode s doing this which is automatically activated 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 a LONG EQUALIZE charge is necessary. During this mode of charge, the battery will lose more then 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. 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 battery charger 3 LED lights can be seen

## **“BATTERY CONNECTED” “red LED”**

Indicates that the battery leads are connected to the battery and the battery has some voltage.

**Warning:** If this red light doesn't come on after the connection to the battery is made, then you may have faulty wiring, may be reverse polarity, or an open cell in the battery. The charger will not continue any charging.

## **“CHARGING” “Yellow LED”**

The light indicates that the battery is receiving some charges, even if it is very small. It confirms that the main power is connected to the charger.

## **“CHARGED” “green LED”**

The light indicates that the battery is charged. By this time the charge level on the battery is over 95%.

**Warning:** If the green light doesn't come on after 8 or 10 hours, charging, it indicates that the battery has some shorted cell, and therefore it can not receive a full charge.

## **Control panel switch:**

On the front panel of the “Bxx Bxx LS” Type T-TECH battery charger there is a 3 position charge mode control switch.

**CHARGE WITH LONG EQUALIZE**                      Top position  
**WET CELL**

This is the equalize charge mode which initiates a 4 hours low current level equalize charge to the battery at the end of the charging cycle. In some cases this charge can repair the faulty cells in the battery.

**CHARGE BOOST**                                      Middle position  
**WET CELL**

This is the boost charge mode which initiates a 2 hours low current level charge to the battery at the end of a charging cycle to replace all the charges in the battery.

**FLOAT CHARGE**                                      Low position  
**WET OR DRY CELL**

This is the float charge mode which charges the battery with a controlled current level to maintain a voltage level suitable for all dry cells.

It can be also used on wet cells but it will not give the full charge replacement for them.

## **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.

## **Contact:**

For any further information please contact us on the internet

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