

Battery Charger Selection

Optimal battery size	Max. Charge Current	Stage No.	CHARGER TYPE NUMBER				Phase	Charger Case Type
			12 V	24 V	36 V	48 V		
50	5	1	B12A5L	B24A5L			1	Personal
		3	B12B5LS	B24B5LS			1	Personal
80	8	1	B12A8L	B24A8L			1	Personal
		3	B12B8LS	B24B8LS			1	Personal
100	10	3	B12G8LS	B24G8LS			1	Handyman
			B12B10LS				1	Personal
120	12	3	B12G10LS	B24G10LS			1	Handyman
			B12B12LS				1	Personal
150	15	3	B12G12LS	B24G12LS			1	Handyman
			B12B15LS				1	Personal
200	20	3	B12G15LS	B24G15LS			1	Handyman
100		5	B12G20LS	B24G20LS			1	Handyman
125	25	5	B12D20L	B24D20L	B36D20L	B48D20L	1	Workshop
			B12D20S	B24D20S	B36D20S	B48D20S		
200	40	5	B12D25L	B24D25L	B36D25L	B48D25L	1	Workshop
			B12D25S	B24D25S	B36D25S	B48D25S		
250	50	5	B12E40L	B24E40L	B36E40L	B48E40L	1	Production
			B12E40S	B24E40S	B36E40S	B48E40S		
300	60	5	B12E50L	B24E50L	B36E50L	B48E50L	1	Production
			B12E50S	B24E50S	B36E50S	B48E50S		
400	80	5	B12E60L	B24E60L	B36E60L	B48E60L	1	Production
			B12E60S	B24E60S	B36E60S	B48E60S		
500	100	5	B12E80L	B24E80L	B36E80L		1	Production
			B12E80S	B24E80S	B36E80S			
600	120	5		B24F80L	B36F80L	B48F80L	3	Production
				B24F80S	B36F80S	B48F80S		
750	150	5	B12E100L				1	Production
			B12E100S					
1000	200	5		B24F100L	B36F100L	B48F100L	3	Production
				B24F100S	B36F100S	B48F100S		
1250	250	5	B12E120L				1	Production
			B12E120S					
1000	200	5		B24F120L	B36F120L	B48F120L	3	Production
				B24F120S	B36F120S	B48F120S		
750	150	5	B12F150L	B24F150L	B36F150L	B48F150L	3	Production
			B12F150S	B24F150S	B36F150S	B48F150S		
1000	200	5	B12F200L	B24F200L	B36F200L		3	Production
			B12F200S	B24F200S	B36F200S			
1250	250	5	B12F250L	B24F250L	B36F250L		3	Production
			B12F250S	B24F250S	B36F250S			

Battery connection options:
 50 Amp Brad Harrison plug
 175 Amp Brad Harrison plug
 Battery clip rated 100 Amp
 3 pin cannon plug
 Crimp Lugs

The instruments are optional!



Personal charger
 203x130x170
 WxHxD



Workshop Charger
 210x210x440
 WxHxD



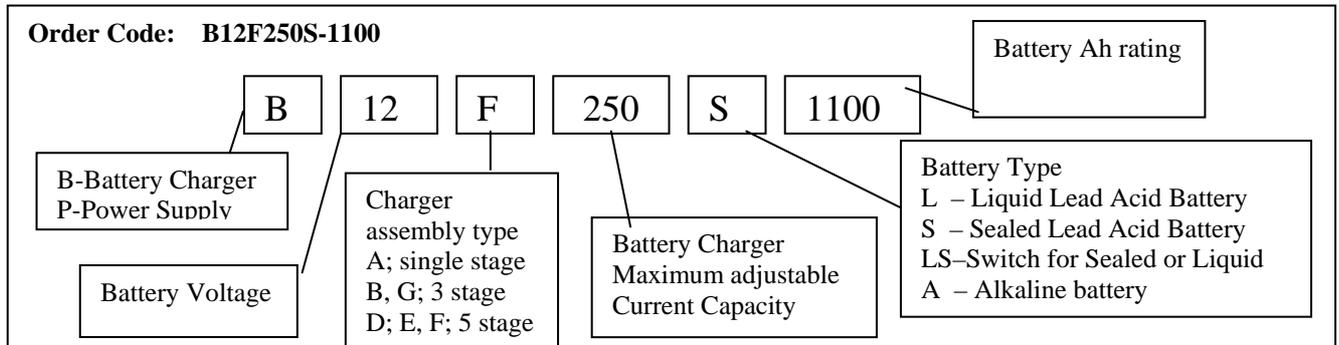
Handyman Charger
 180x300x150
 WxHxD



Production Charger
 500x720x440
 WxHxD

Ass.	Case	Stage	Phase
A	Personal	1	1
B	Personal	3	1
D	Workshop	5	1
E	Production	5	1
F	Production	5	3
G	Handyman	3	1

T-TECH ordering code description:



Disclaimer: The charger type and size recommendations in this document are for general guidance only and should be checked before ordering. Specifications are subject to changes to improve the quality of our products.



Application

- Marine
- Industry
- Office
- Telecommunication
- Retail centre
- Workshop
- Home
- Golf buggy
- Electric scooter
- Electric Wheel chair

Features

- Low price
- Efficiency
- Designed for:
 - Lead Acid liquid batteries
 - Alkaline batteries
 - Sealed and gel cell batteries

T-TECH is offering the latest design in battery charging technology.

The range of 65 standard T-TECH models of chargers will meet most of your battery charging needs. Most of the chargers are on stock and ready to dispatch or can be assembled from in-house components in a few days.

5 Stage voltage and current regulated charger

The charging stages are:

1. Gassing
2. Non Gassing
3. Boost
4. Equalize
5. Float

This type of T-Tech charger provides an excellent battery management. It monitors the gassing level in the battery while charging it. In effect it recharges the battery faster, allowing the use of the battery in production sooner. At the same time the charger gives a lower than usual liquid loss from the cells.

This charger with the accurate control circuit conserves the life of the battery.

- Gives a Boost charge after a battery discharge is detected.
- Reduces water loss by adjusting the charge current according to the gassing on the cells.
- It has a battery reconditioning charge to equalize the cells which developed some leakage resistance.
- With a final float charge it holds the battery charge for an extended time.
- Sealed liquid maintenance free battery charge mode, is available if requested upon ordering.

PROTECTIONS BUILT INTO THE 5 STAGE CHARGER

- The connection to the battery is monitored and any fault is indicated.
- Reverse polarity connection protection.
- Until the battery is connected correctly, the DC output is not energized
- An open battery cell is detected and indicated.
- Shorted battery cell is detected and an unsuccessful charge is indicated.

SIZING OF THE 5 STAGE CHARGER:

The optimal size of this type of charger has a maximum current capacity which is 20% (0.2C) of the battery's Ampere hour rating.

Larger capacity charger should be adjusted to give only the 0.2C current. With the lower current capacity charger the charging time will increase and the current output should be left at the maximum level that the charger can handle. These are factory adjustments. The chart following shows the optimal adjustment ranges of each charger module.

3 Stage voltage and current regulated charger:

The charging stages are:

1. Boost
2. Equalize
3. Float

This charger gives a boost charging to the battery each time a battery discharge is detected.

The battery charging voltage is accurately maintained and adjusted to the battery's charging level with an accurate temperature compensation.

On a switch, you can select between different charging modes, some of which are suitable for liquid and other for dry cell batteries.

The indication on the front panel lets you know if the connection to the battery is OK, if the charger is giving charge to the battery and also if the charging cycle is completed and the battery is ready for use.

Sealed liquid maintenance free battery charge mode, is available if requested at the time of order.

SIZING OF THE 3 STAGE CHARGER:

The optimal size of this type of charger has a maximum current capacity which is 10% (0.10C) of the battery's Ampere hour rating.

Larger capacity charger should be adjusted to give only the 0.10C current. With the lower current capacity charger the charging time will increase and the current output should be left at the maximum level the charger can handle. The current tune-ups are factory adjustments only. The chart following shows the optimal adjustment ranges of each charger module.

PROTECTIONS BUILT INTO THE 3 STAGE CHARGER:

- The connection to the battery is monitored and indicated
- Reverse polarity connection protection.
- Until the battery is connected correctly, the DC output is not energized
- Power line connection is indicated

Single stage current regulated charger:

It provides a regulated current to the battery while it is connected to the battery.

The charging time will depend on the charger's current capacity. The charge level should be monitored and the charger should be disconnected when the charging is completed.

SIZING OF THE SINGLE STAGE CHARGER:

Max charging current should be within the range of 0.05 to 0.10 times of the Ampere hour rating of the battery.

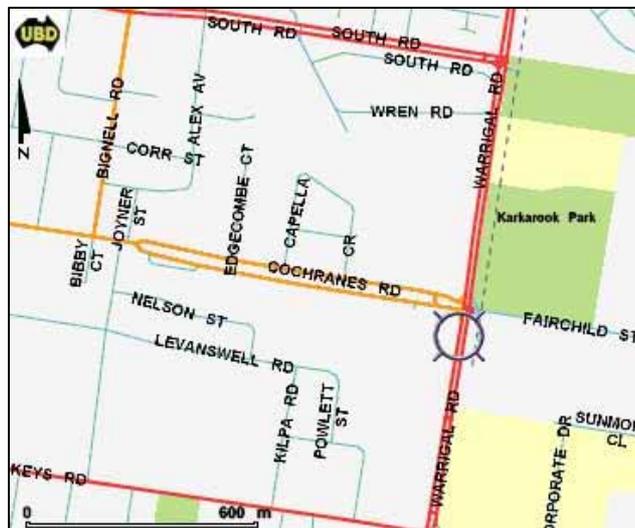
Warning:

Always use the correct charger for a given battery. The best charger can destroy a battery if it is not made or adjusted to the type and size of the battery.

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