

**Intelligent Li-Po/LiFe Battery Pack Balance Charger**

Thank you to choose our VTE600 Combo Charger, it is perfect balance charger for your Li-Po and LiFe 1S to 3S Batteries.

**Model No.: VTE600 Combo Balance Charger  
Intelligent Li-Po / LiFe Battery Pack Balance Charger (1-3 Series)**

VTE600 Combo Balance Charger is special design for Lithium-ion Polymer, Lithium-ion battery or Lithium-Iron-Phosphate (LiFePO<sub>4</sub>) Battery, from 1S to 3S Battery Packs. It can not be used for Ni-Cd or Ni-MH rechargeable Batteries, or Primary Batteries.

# SAVE THESE INSTRUCTIONS

**Characteristics**

1. Special microcomputer controlled, ensure balance precision within 15mV.
2. **Combo charger for both Li-Po and LiFe Batteries.**
3. Build-in Power supply make it more slim and easy to take.
4. **Automatically detects and controls the voltage of each cell independently, ensures a balance voltage between cells.**
5. Each cell's charge situation can be clearly displayed by one corresponding LED.
6. Input has protective function of short circuit and opposite connection.
7. **The out-off voltage of charger between 4.20±0.015V/cell for Li-Po batteries, and 3.65±0.015V/cell for LiFe batteries**

**Method for Charging Rechargeable Batteries**

- 1) Put the Plug in mains socket; the three LEDs will be **BLUE** when put on Li-Po Position, or **GREEN** when put on LiFe position.
- 2) **Choose the right position of the charger to charge you Li-Po or LiFe Battery. To use Li-Po function to charge LiFe battery will be over-charge. And to use LiFe function to charge Li-Po battery will be not fully-charge. And one time it can only charge one piece Battery.**

## Caution

- ◆ **Prohibited charge with Multi-Groups Batteries at the same time!**
- ◆ **Prohibited charge LiFe Battery by Li-Po Function, the Battery maybe too hot to Fire! To charge Li-Po Battery by LiFe Function, the battery will not be fully charged!**

- 3) **Plug 1S~3S Battery pack into the charge port of charger; Ensure that +/- polarity is correct, or the charger will not work, The charger may be broken.**
- 4) Charging process will start.  
When charging 1S battery, 1CELL LED will be RED. 2CELL & 3CELL LEDs will keep BLUE (Li-Po) or GREEN (LiFe).  
When charging 2S Battery, 1CELL & 2CELL LEDs will be RED, 3CELL LED will keep BLUE(Li-Po) or GREEN(LiFe).  
When charging 3S Battery, 1CELL, 2CELL & 3CELL LEDs will be all RED.  
**When the RED LEDs** turns to RED/BLUE(Li-Po), or RED/GREEN(LiFe), the battery nears 80%~90% charged,  
**When the RED LEDs** turns to BLUE(Li-Po), or GREEN(LiFe), the battery is fully charged,
- 5) Unplug the Battery from the charger, and unplug the plug from the mains.

## Charging Process Indications:

Battery pack	LEDs	Related situation
Only connect the power, the side selector switch on Li-Po position	1CELL~3CELL LEDs BLUE	Please charge Li-Po Batteries only
Only connect the power, the side selector switch on LiFe position	1CELL~3CELL LEDs GREEN	Please charge LiFe Batteries only
One cell Normal charge	1CELL LED RED, 2CELL & 3CELL LEDs: BLUE(Li-Po), or GREEN(LiFe)	Normal charge by 1S Battery
Two cells normal charge	1CELL & 2CELL LEDs RED, 3CELL LEDs: BLUE(Li-Po), or GREEN(LiFe)	Normal charge by 2S Battery
Three cells normal charge	1CELL~3CELL LEDs RED	Normal charge by 3S Battery
One cell 80%~90% charge	1CELL LED RED/BLUE(Li-Po) or RED/GREEN(LiFe), 2CELL & 3CELL LEDs: BLUE(Li-Po), or GREEN(LiFe)	80%~90% charged for 1S Battery

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Two cells 80%~90% charge	1CELL & 2CELL LEDs RED/BLUE(Li-Po) or RED/GREEN(LiFe) 3CELL LEDs: BLUE(Li-Po), or GREEN(LiFe)	80%~90% charged for 2S Battery
Three cells 80%~90% normal charge	1CELL~3CELL LEDs RED/BLUE(Li-Po) or RED/GREEN(LiFe)	80%~90% charged for 3S Battery
One cell Fully charge	1CELL~3CELL LEDs BLUE(Li-Po), or GREEN (LiFe)	Fully charged for 1S Battery
Two cells Fully charge	1CELL~3CELL LEDs BLUE(Li-Po), or GREEN (LiFe)	Fully charged for 2S Battery
Three cells Fully charge	1CELL~3CELL LEDs BLUE(Li-Po), or GREEN (LiFe)	Fully charged for 3S Battery

**Notice:**

Please plug battery pack into charger after connecting charger with the mains; confirm +/- polarity of battery pack. The charger has heat dissipation, do not put any thing on it (such as: plastic), otherwise it will affect the charge for inner temperature is too high and not easy to dissipate heat. The circuit of inner will self-reduce output power and prolong time of charge. Normal temperature depend on 30°C ~50°C. The charger will stop working after 60°C, LED will be flash.

If charger is not in using, please ensure that charger is not connected with power.

**Charge Time Table**

Battery style and capacity		Charge time	Charge time
		Li-Po 600mA 4.2-12.6V	LiFe 600mA 3.65-10.95V
Li-Po LiFe	6600mAh	About 12 hours	About 12 hours
	5000mAh	About 9 hours	About 9 hours
	4000mAh	About 7 hours	About 7 hours
	3300mAh	About 6 hours	About 5 hours
	2200mAh	About 4 hours	About 4 hours
	1600mAh	About 3 hours	About 3 hours
	1300mAh	About 2.5 hours	About 2.5 hours
	1000mAh	About 2 hours	About 2 hours
	800mAh	About 1.6 hours	About 1.6 hours
	450mAh	About 0.8 hours	About 0.8 hours

◆ Above battery charge time depend on ambient temperature 10 °C to 30 °C. Charging time may be different from different brand batteries

**Warning:**

Only suitable for Li-ion, Li-Po or LiFe Batteries.

Do not charge for other types batteries (such as alkaline or carbon batteries), otherwise will cause battery heat, leak, or break, even harm to person or property. It belongs to user's responsibility.

Keep away from children when charge, do not let children play with the charger.

Operate charger properly avoid power collision.

The product is seal covered, do not disassemble it, or the charger will be useless, even lead to danger (fire/explode). All responsibilities belong to user.

**Notice:**

The charger is for indoor use only, do not expose in rain or snow.

Finish charge or not in use, remove charger from power supply.

Do not let the charger fall to the ground, or put heavy things above it, or bang it.

Children can use the charge with guide of adult.

The charge operation temperature is 0°C-40°C, to get ideal electricity capacity, please charge under temperature between 10°C-30°C.

After high-power discharge, perfect to carry on the charge in 4 hours later, at the same time is quite good charge effect,

Otherwise it can reduce the charge efficiency, even has certain influence to the battery life.

Do not charge if the temperature of battery is higher than ambient temperature for than 5°C, it should better wait for the battery temperature to reduce to the ambient temperature.

The charger only suitable Li-Po or LiFe, it cannot use for Ni-MH or Ni-Cd.

If there is not any display on charger, please check whether input or output is opposite connected or not.

Please prevent Lithium battery from over charge, or charge effect will be reduced, what worse, the lithium battery will be not charged in anymore.

**Specifications**

Input voltage:

85V-240V, 0.2A Max

Input frequency:

50/60Hz

Cut-off voltage

For Li-Po Battery: DC 4.20V±0.015V / 600mA±100mA \* 3

For LiFe Battery : DC 3.65V±0.015V / 600mA±100mA \* 3

Operation temperature :

0°C to 40°C

Dimension:

101MM \* 61MM \*34MM

Weight:

94g