

1. Preface:

YT-0002S intelligent balancer charger is professional designed for Lithium Polymer/Lithium-ion battery from 1 to 3 cells .

2. Characteristics:

- 2.1. Micro-computer control, high charge efficiency and precision.
- 2.2. Check 1-3cells good or not automatically.
- 2.3. Test each cell voltage automatically, and charge the battery with balanced.
- 2.4. Four LED (A, B, C and D) indicate different status.
- 2.5. Input voltage is 10-18V, even can use car chargers. The best is 12-17V.
- 2.6. Short-circuit and reverse polarity protection for both input and output
- 2.7. Max charging time protection: 10 hours.
- 2.8. Output voltage: 4.2V $\pm$ 0.03V(1S); 8.4 $\pm$ 0.06V(2S); 12.6V $\pm$ 0.1V(3S);
output current : 1000mA $\pm$ 100mA
- 2.9. Balance each cell voltage is or less than 30mV ..
- 2.10. Size (thickness*width*length): 25.5*71*103mm; weight: 160g or so.

3. Guide line:

- 3.1. Connect one transformer (15V/1.2A) or car charger with YT-0002S charger DC input.
- 3.2. Connect 1 cell or 2 cells or 3 cells battery with the charger output connector correctly, must be sure that the positive and the negative connection are right.
- 3.3. LED B, C and D red mean charging. LED B, C, D green means fully charged.
- 3.4. If LED B, C, D orange means small current to charge and repair battery, if the battery voltage recover normal, then LED B, C, D will change to red. After 3mintues or so, LED B, C, D still orange, that means battery damaged or reverse polarity.

4. Detailed status:

Description	LED(s) status	Note
Connect power but no connecting battery	LED A, B, C, D green	Charger is good
Contact 1S cell to charger	LED D red, A, B, C green	1S battery charging
Contact 2S cell to charger	LED C & D red, A, B green	2S battery charging

Connect 3S cells to charger	LED B, C & D red, A green	3S battery charging
fully charged	LED B, C, D green	If connect 1S battery, 1S battery charged full If connect 2S battery, 2S battery charged full If connect 3S battery, 3S battery charged full

5. Malfunction specification:

LED(s) status	Possible reasons	Solution
LED B,C,D orange	Battery damaged	Change new battery
	Short - circuit	Check the circuit again
	Reverse polarity	Check battery polarity
LED A no light	AC or DC Reverse polarity	Check the polarity again
	AC input contact is not well	Connect again
	DC input contact is not well	Connect DC input again

6. Warning:

- 6.1. YT-0002S charger only charge Lithium Polymer and Lithium-ion battery.
- 6.2. Do not charge other type battery, such as NI-CD/NI-MH/primary battery, otherwise lead fire, leakage, injury person etc accidents, the manufacturer, distributors and retailers will not be responsible for these accidents.
- 6.3. Far away Children or easy fire objects during charging.
- 6.4. Do not open the charger by yourself, otherwise the manufacturer will be no any responsibility.
- 6.5. Do not charge 1S,2S,3S battery at the same time, otherwise it will lead battery or charge destroyed.
- 6.6. Connect battery to charger firstly before connect charger to AC power.

- 6.7. Move charger away after charging, do not connect charger with battery after charged full.
- 6.8. Do not put the charger under rain or fire.
- 6.9. Charging finished, move away the charger from AC power.
- 6.10. Do not put something on it during charging.
- 6.11. Children must be over 12 years and must be with adult's helping if using the charger.
- 6.12. Working temperature is from 0 to 60°C, the better charge performance is between 20 to 35°C.
- 6.13. Take care of the polarity before using.
- 6.14. We recommend the Max. charge current is not over 1C.
- 6.15. AC adaptor input data should be: AC100-24V/50/60Hz; DC input data should be :15V/1.2A.
- 6.16. If DC input voltage is less than 10V, the charger can not work.
- 6.17. Before using, customers must read above information recommended, any accident lead by incorrect using method (over above specified), the manufacturer, distributors, retails will not be responsibility.