

Usage: To charge any USB device with using LiPo batteries OR other power source
Input: 2S to 6S LiPo batteries OR other power source from 6V up to 26V
Output: 5V, 2 Amps

Features:

- * Auto power on
- * Auto detect LiPo cell count
- * Auto Protection: Overload and short circuit protection (Output)
- * Build-in temperature sensor protection (70°C)
- * Wrong input polarity protection
- * 3 charging mode selection with LED indication:

Mode 1) Stop charging if any LiPo cell under 3.3V
Mode 2) Stop charging if any LiPo cell under 3.8V
Mode 3) Using other power source (no LiPo battery voltage protection / no LiPo cells detection)



Scorpion Power System
www.scorpionsystem.com

**User Guide for
Scorpion Portable USB Charger**

***Caution:** Suggest use original charging cable to charge the electronic appliances. Always disconnect power source after device fully charged. Not to use LiPo battery in mode 3, battery will continues discharge without protection. Battery may over discharge cause explosion. Charger heat sink temperature could heat up to 70°C.

Explanation of LED indicator

Mode	Cause	LED	Function	Description
Mode 1	Function properly Problem with output side Device over heat (over 70°C) If any cells under 3.3V or fail	Green BLINK / Red OFF	Charging	Green LED blink in HIGHER frequency Example if connected to a 3 cells battery, green LED blink 3 times in higher frequency blink..blink..blink
		Green OFF / Red ON	Stop charging	Check any short circuit or overload at output side
		Green OFF / Red ON	Stop charging	Unplug power source and charging device, wait the charger temperature drop down to under 60°C
		Green BLINK / Red BLINK	Stop charging	Example if connected to a 5 cells battery, the third battery under 3.3V or fail LED indicate at green..green..red..green..green and repeat until battery unplug
Mode 2	Function properly Problem with output Device over heat (over 70°C) If any cells under 3.8V or fail	Green BLINK / Red OFF	Charging	Green LED blink in LOWER frequency Example if connected to a 3 cells battery, green LED blink 3 times in lower frequency blink..blink..blink
		Green OFF / Red ON	Stop charging	Check any short circuit or overload at output side
		Green OFF / Red ON	Stop charging	Unplug power source and charging device, wait the charger temperature drop down to under 60°C
		Green BLINK / Red BLINK	Stop charging	Example if connected to a 5 cells battery, the third battery under 3.8V or fail LED indicate at green..green..red..green..green and repeat until battery unplug
Mode 3	Function Properly Problem with output side Charger over heat (over 70°C)	Green On / Red OFF	Charging	Do not use LiPo battery in this mode, battery will countinue discharge without protection. Battery may over discharge cause explosion
		Green OFF / Red ON	Stop charging	Check any short circuit or overload at output side
		Green OFF / Red ON	Stop charging	Unplug power source and charging device, wait the charger temperature drop down to under 60°C