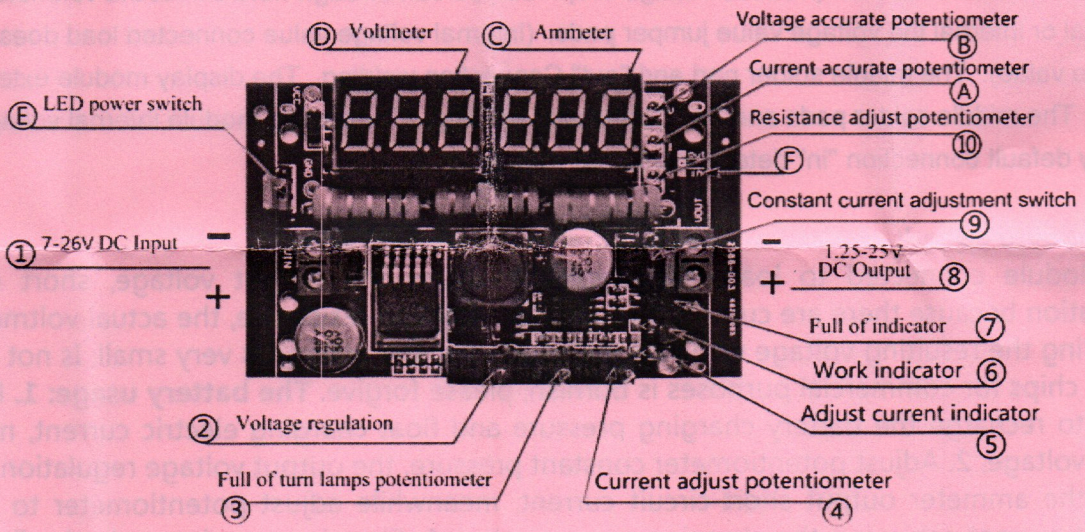
LED Voltage and current display
LM2596 DC-DC Step Down CC-CV Adjust Power Supply

LM2596 constant pressure constant flow module using NS LM2596-ADJ adjustable large current chip , Through the precise much circle potentiometer adjust voltage current , Make the voltage stability in its current can value inside. Module bring their own precise voltmeter and ammeter, To monitor and regulate the output voltage current.

size: 70(L)X49(W)X15(H). **Module properties:** Non-isolated step-down module. **Charging reverse filling protection:** yes. **Current lamp transformation function:**yes. **The most low voltage difference:** 1.25V. **Adjust potentiometer direction:** Clockwise (increase), counterclockwise (decrease). **Instructions lamp:** Constant flow indicator light yellow, red lights in charge, charging completes indicator light green. **The input voltage:**DC7-26V(less than 7 V, module may not work properly). **Output voltage:** DC1.25-25V(adjustable). **Output current:** 0-2.6A (adjustable). **Output power:** natural cooling 15W. **The voltmeter resolution:** 0.1V. **The voltmeter allow error:** (adjustable) ±0.2V. **Ammeter resolution:** 0.01A. **ammeter allow error:** (adjustable). **Voltage current LED:** can be free to change color. **The wiring way:** 5mm terminals. **No-load and load voltage difference:**yes.

Module that all parts :



1. The power input 7-26V(Chip voltage range for 7-30V, 30V, for reasons for limit chip, so bear Suggestions in the input value 7-26V between), less than 7V module can not work normally, through the terminal the screw the power cord, Note are aligned input.

2. Voltage regulation by potentiometer circle precision potentiometer, clockwise increased voltage, counterclockwise reduce voltage. Reference voltage display window adjust the Ⓓ need of driving voltage or battery charging pressure float.

3. Full of turn lamps potentiometer adjust turn lamps current: constant current value (1% to 100%), Turn lamps electric current and constant current value linkage system, such as the constant current value of 3A, turn lamps current set for constant current 0.1 times (0.1 * 3A = 0.3A). When the constant current value adjustment into 2A time, right now turn lamps for the current constant current 0.1 times (0.1 * 2A = 0.2A). Constant flow range 0-2.6A adjustable.

4、Current adjust potentiometer through the ⑨ to adjust current short circuit switch to open, reference to show a window adjust current Ⓒ need to drive or recharging the battery needs recharging electric current.

5、To adjust current indicator light, when ⑨ to adjust current short circuit switch on, this light, or the use of current reach a set limit on the light.

6、Work indicator light, when a current output and greater than turn lamps current, the lit up.

7、Full of instructions, when the current is less than③ full of turn lamps potentiometer turn the lights out

current or no-load, this light up.

8、Output terminal, module power output terminal, pay attention to distinguish the anode.

9、To adjust current short circuit switch when needed to adjust the current limit, open, right now belongs to the output internal short circuit state, if ammeter shows large current, should adjust as soon as possible, otherwise resistance for large current overheating will be destroyed.

10、Resistance accurate potentiometer, this factory has the potentiometer must, please don't adjust at this potentiometer, can affect ammeter accuracy, this potentiometer need through the precision instruments with reference to the time.

A、Current accurate potentiometer, can consult to adjust the display value current multimeter.

B、Voltage accurate potentiometer, can consult the multimeter must display value voltage.

C、Ammeter display window, shows that the output current value, display resolution for the smallest 0.01A (10mA).

D、The voltmeter to show a window, shows that the output voltage value, display resolution for the smallest 0.1 V.

E、LED display the power switch, through this switch can shut off the voltmeter ammeter work, but module continue to work, used to save electricity working state.

F、(5 version of the above adding features) voltage detection selection solder pad. Due to the output voltage connected load will produce voltage drop. So you can through here select the voltmeter shows an external or internal the voltage value jumper pads. (Internal voltage value connected load does not change the voltage value). The middle solder pad and "out" Connection welding. The display module external voltage value. The middle solder pads and "in" Connection welding. The display module internal voltage value. The factory default connection "in" detection internal voltage.

Module added:

Module connected to load, the voltmeter shows the output voltage, short circuit current regulation because there are current through the sampling resistance, the actual voltmeter shows the sampling the resulting voltage value on the resistance, the voltage is very small. Is not a malfunction. Some chips for commercial purposes is burnish, please forgive. **The battery usage: 1.** Make sure you need to recharge the battery charging pressure and float charging electric current, modules of the input voltage; **2.** Adjust potentiometer constant pressure, the output voltage regulation to 3V or so. **3.** View the ammeter output short-circuit current, meanwhile adjust potentiometer to adjust current output current achieving the charging current value; **4.** Charging turn lamps in the first time charge current process can reference ammeter adjust you want to turn the lamp current, later to the charging electric lamp circulation. For example: in the process of charging that 50mA ammeter, adjust potentiometer make indicator lamp current turn into a green light just, in charge after 50mA a turn lamps. **5.** Adjust voltage adjust potentiometer output voltage to float charging pressure; **6.** Grafted in battery, test charge. **LED constant current driver USES methods: 1.** Make sure you need to drive the working current and highest LED working voltage; **2.** Adjust potentiometer constant pressure, the output voltage regulation to 3V or so. **3.** View the ammeter output short-circuit current, meanwhile adjust potentiometer current output current reach the predetermined LED working current; **4.** Adjust potentiometer constant pressure output voltage LED to the highest working voltage; **5.** Grafted in LED, test.

Suitable for: DC powered devices. High power LED constant current drive, lithium battery (including ferroelectric), 4 V, 6 V, 12 V, 14 V, 24 V battery charging, nickel cadmium nimh batteries (stack) charging, solar panels, wind generators, etc.

Statement: Because the module voltage and current adjustable. May be due to not adjusted properly causing damage to the module and load. Therefore, the manufacturer is not responsible for any loss caused by the module.

Module testing is completed, the voltage set at 5.0V, the current set 0.28A, users need to adjust according to their voltage and current.

THANK YOU FOR USE OF THE JQ POWER MODULE .