

- 1. Module Properties: non-isolated step-down constant current, constant voltage module (CC CV) charging module
- 2. Input voltage: DC 7-32V
- 3. Output voltage:DC 0.8-28V continuously adjustable
- 4. Output Current: 12A (when power tube\'s temperature exceeds 65 degrees, please add cooling fan)
- 5. Constant current range: 0.2-12A (adjustable)
 6. Turn lamp current: constant current value * (0.1), turn the lamp current and constant value linkage, such as constant current value is 3A, turn the lamp current is set to a constant current is 0.1 times (0.1 * 3A = 0.3A). 7. Lowest pressure: 1V
- 8. Output Power: Maximum power is about 300W
- 9. Conversion efficiency: up to about 95%
- 10. Operating frequency: 300KHZ 11. Output ripple: 20M bandwidth 12. Input 24V Output 12V 5A ripple around 50mV (Excluding noise)
- 13. Output short circuit for protection : Yes, constant current 14. Input Reverse Polarity for Protection: None
- 15. Output prevent backflow: None
- Wiring: Terminal
 No-load current: Typical 20mA (24V switch 12V)
- 18. Load regulation: ± 1% (constant)
- 19. Voltage regulation: ± 1% 20. Dynamic response speed: 5% 200uS
- 21. Potentiometer adjustment direction: clockwise (increase), counterclockwise (decrease), the potentiometer(CV) closed to the input
- voltage is used to regulate voltage, the potentiometer(CC) closed to output voltage is used to regulate current (CC)

 22. Operating temperature: Industrial grade (-40 °c to +85 °c) (please note the actual use of the power tube temperature , high
 - temperature heat strengthened please)
- 23. Indicator: dual color indicator, charging indicator light is red, the green light means fully charged (No load is green) 24. Size(approx): 65 x 47 x 22mm(L x W x H)

- 1. Fixed turn lamp current is 0.1 times the current value (Used to identify whether the battery is fully charged When charging),
- 2. Made from a dedicated benchmark for IC and high-precision current sensing resistor, proving a more stable constant current, (when 20° to 100° constant current 1A, temperature drift less than 1%). Particularly suitable for LED driver.
- 3. High output current, the max output current can reach 12A.
- Four high frequency capacitance, can lower output ripple, enhance the work stabilization.

Applications

- 1. High-power LED driver
- 2. Lithium battery(or lead accumulator) charge
- 3. Vehicle-mounted power supply
- 4. Low voltage system power supply 5. 6V, 12V, 14V, 24V battery cha

Battery charge

- 1. Make sure of the battery float voltage and charging current that you need, as well as the input voltage of the module.
- Adjust the constant voltage potentiometer and adjust the output voltage to about 5V.
 Use the multimeter in 10A current scale to measure output short-circuit current, and adjust the current potentiometer to make
 - the output current to the expected charging current value
- 4. Adjust the constant voltage potentiometer to make the output voltage reaches the float voltage.
- 5. Connected to the battery, try to charge.
- (1,2,3,4 steps to connect the power module input,output no-load does not connect battery.)

LED constant current drive

- 1. Make sure the operating current and Max operating Voltage of the LED you need to drive.
- Adjust the constant voltage potentiometer, adjust the output voltage to about 5V.
 Use the multimeter in 10A current scale to measure output short-circuit current, and adjust the current potentiometer to make
 - sure the output current to the expected LED operating current.
- 4. Adjust the constant voltage potentiometer to make the output voltage reach the maximum LED operating voltage.
- 5. Connect LED, test.
- (1,2,3,4 steps to connect the power module input, output No-load does not connect LED.)



