

Product Description:

Product Name: 20A high power synchronous rectification step-down constant voltage and constant current power supply module

Input voltage: 6-40

Module properties: Synchronous rectification non-isolated step-down constant current constant voltage module CC, CV charging module

Application: High-power LED constant current drive, lithium battery charging (including ferroelectric), 4V, 6V, 12V, 14V, 24V

Battery charging, Ni-Cd Ni-MH battery (battery pack) charging, solar panels, wind turbines

Input voltage: 6-40VDC

Output voltage: Continuously adjustable (1.2-35VDC) below 32V for a long time (applicable to input voltage higher than output voltage)

The application of pressure cannot increase the pressure)

Output current: Maximum 20A, long-term 15A (If the power tube temperature exceeds 65 degrees, please add a fan to dissipate heat.

Please use derating when using high voltage output)

Current limiting range: 0.2-20A (adjustment) If the module exceeds 65 degrees, please add a fan

Minimum voltage drop: 3V

Working frequency: 150KHZ

Conversion efficiency: up to about 96% efficiency depends on the pressure difference and the use environment

Output ripple: ripple about 50mV (please pay attention to the temperature of the power tube in actual use. If the temperature is too high, please strengthen the heat dissipation.

or derated)

Working temperature: -10 \bar{y} to +75 \bar{y} (Please pay attention to the temperature of the power tube in actual use. If the temperature is too high, please increase the heat dissipation

or derated)

Potentiometer adjustment direction: clockwise (increase), counterclockwise (decrease)

Output short circuit protection: Yes (instantaneous protection) constant current (the current constant current value cannot be short-circuited for a long time)

Input reverse protection: No

Output reverse current protection: None, for loads with their own power or inductive loads that require an external diode

Potentiometer adjustment direction: Terminal block

Module size: 60*53*27MM (length*width*height)

Product weight: about 86g (including anti-static bag)

Output current adjustment method:

1. Adjust the CV potentiometer to set the output voltage to the voltage value you need according to your load requirements.
 2. Set the CC potentiometer counterclockwise for about 30 turns (i.e. set the output current to the minimum, connect the LED, and adjust the CC Potentiometer to the current you need. For battery charging, discharge the battery and then connect it to the output.
- CC to the current you need. (When charging, you must use a fully discharged battery to adjust the current, because the battery has
- The more power there is, the smaller the charging current.

Features:

1. 6-40V wide voltage input
2. Synchronous rectification 97% high efficiency
3. Constant voltage and constant current output is continuously adjustable
4. Two 85V 80A high current MOS tubes
5. Use 23M Sendust aluminum and 3 0.8MM pure copper wires to wind

Product Image:

