



الحمدادي للألكترونيات  
ALHAMMADI FOR ELECTRONICS

**Power description:** Since the maximum input current of this power supply is 20A, the output power is related to the input voltage. The higher the input voltage, the higher the power, for example, the input 12V\*20A power is 240W, the input 24V\*20A is 480W, and this is the maximum power. Due to the limited heat dissipation area, please add a 12V fan to dissipate heat when the input voltage exceeds 10A or the output current reaches 10.

Module Parameters:

**Module model: SZ-BT07CCV-A**

**Module name:** 1200W step-up constant current module

**Module Nature:** Non-Isolated Boost Module (BOOST).

**Input voltage: DC10-60V (direct input 10-60V without jumper cap to select voltage)**

**Input current:** 20A (MAX) more than 15A, please add fan cooling (add fan cooling input voltage at 12-24V, the input current can reach 25A).

**Quiescent working current:** 15mA (when 12V to 20V, the higher the output voltage, the higher the static current, the higher the static current).

**Output voltage:** 12-83V continuously adjustable (the default output is adjusted to 19V shipment).

**Output current:** 18A MAX If it exceeds 10A, please strengthen heat dissipation (related to the input and output voltage difference, the larger the voltage difference, the smaller the output current).

恒流范围 : 0.5-18A (+/-0.3A)

**Input anti-reverse connection:** Yes (150A power MOS anti-reversal).

**Low battery protection:** Yes (9-50V adjustable).

**Operating temperature:** -40~+85 degrees (please strengthen heat dissipation when the ambient temperature is too high).

**Working frequency:** 150KHz

**Conversion efficiency:** 92%-97% (efficiency is related to input and output voltage, current, and voltage difference, and the pressure difference is small and the efficiency is high).

**Input over-current protection:** Yes (input over 25A, automatic protection, power supply does not boost).

**Short Circuit Protection:** Yes (input 30A fuse) Double short circuit protection, safer to use.

**Input reverse connection protection:** Yes (150A power MOS tube anti-reversal.) Can be reversed for a long time).

**Installation:** 4 pcs 3mm copper pillars

**Wiring:** Terminal block (please use high-current pure copper wire).

**Module size:** length 130mm, width 52mm, height 53mm

**Module unit weight:** 300 grams

Output power: = input voltage \* 20A, for example: input 12V \* 20A = 240W The maximum power when input 12V is 240W

Input voltage\*20A For example: input 24V\*20A=480W, that is, the maximum power when input 24V is 480W

**Note:** The maximum power is 240W when 12V is input, 480W when 24V is input, and 720W when 36V is input

The power supply is made of four 63V/470UF high-frequency and low-resistance electrolytic capacitors, and three 100V/470UF electrolytic capacitors are used for output. 33MM ULTRA-HIGH POWER IRON-SILICON-ALUMINUM MAGNETIC RING IS WOUND WITH THREE 1.2MM PURE COPPER WIRES TO PREVENT OVER-TEMPERATURE

MAGNETIC SATURATION IN THE CASE OF LARGE CURRENT. USE A 116MM\*58MM\*14MM ALUMINUM RADIATOR TO DISSIPATE HEAT. AND THE HEAT SINK HAS 5015 FAN (5MM\*5MM\*15MM) MOUNTING HOLES; The output voltage and current of the imported power management chip are continuously adjustable.