



**DFROBOT**  
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## DC-DC Buck Boost Converter Module (5A)

SKU: DFR0946

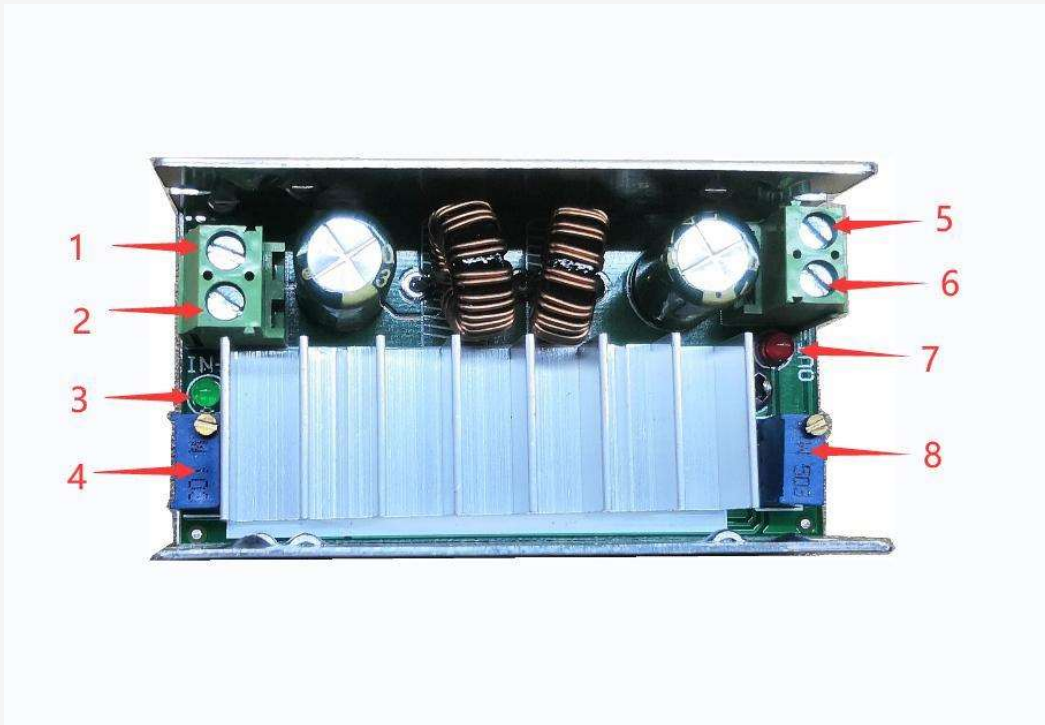


### *INTRODUCTION*

This Buck-Boost Converter helps a lot when different voltage power supplies are required at work.

It integrates DC-DC boost and buck onto one that allows the input voltage to be greater or less than the output voltage while the output remains unchanged. With automatic voltage stabilization and constant current function, the buck-boost converter module features settable maximum current, up to 89% conversion efficiency, and a maximum output of 5A.

It is suitable for industrial power supply, DIY smart power supply, embedded system power supply, and other scenarios.



1: Input +

2: Input -

3: Constant Current Indicator

4: Constant Current Regulation

5: Output +

6: Output -

7: Output Indicator

8: Output Voltage Regulation

### **Instruction:**

Connect the power supply, the module starts to output voltage. Connect the output terminal to the multimeter voltage, and turn the voltage adjustment potentiometer to adjust the output voltage to the desired value.

Then adjust the multimeter to the 10A current gear, connect the positive probe to the positive output, and the negative probe to the negative output, and adjust the constant current set potentiometer to get the maximum output current value you want, the current value displayed on the multimeter is the constant current value. After that, connect to the load and everything should work fine.

**Note:** When using high power, please add heat dissipation if you encounter a severe heating problem.

## *FEATURES*

- Integrates DC-DC boost and buck

## *APPLICATIONS*

- Industrial power supply
- DIY smart power supply
- Embedded system power supply

## *SPECIFICATION*

- Input Voltage: DC 6 ~ 35V
- Output Voltage: DC 1.0 ~ 33V (Note: This board is an automatic boost-buck board, and the output voltage can be greater than or less than the input voltage)
- Constant Current Adjustment Range: 0.05A ~ 5A
- Conversion Efficiency: 90% (Measured when input 12V and output 19V/2.5A, efficiency is related to the input voltage, output voltage, and current)
- Maximum Input Current: 7A (Please leave margin for long-term continuous work)
- Maximum Output Current: 5A (please leave margin for long-term continuous work)
- Module Size: 70x39x32 mm (L x W x H)/ 2.76 x 1.54 x 1.26 inch

## *SHIPPING LIST*

- DC-DC Buck Boost Converter Module (5A) x1