Arduino Compatible DC-DC Boost Module with Display

1. Introduction

This is a DC-DC boost module, IN input voltage range 3.5~35V, maximum current 9A; OUT adjustable output 3.5~35V, maximum current 6A. We can press the button on the module to switch the digital tube to display the input voltage and output voltage; rotate the potentiometer clockwise to increase the output voltage, and rotate the potentiometer counterclockwise to decrease the output voltage. This module can be used in the boost field where the input voltage is lower than the output voltage, such as: 3.5 to 5V for mobile power bank, boost drive LED light string (need to add appropriate current limiting resistor), DIY adjustable voltage regulated power supply industrial equipment boost. 3.5V to 5V, 3.5V to 12V, 5V to 12V, 5V to 24V, etc. The module comes with 4 positioning holes, which is convenient for you to fix the module on other devices.

2. Parameters

Input voltage: 3.5~35V DC (Note: if the input voltage is less than 4V, the onboard voltmeter will fail)

Input current: 9A (max)

Output voltage: 3.5~35V DC (this board is a boost board, the output voltage must be >= input voltage)

Output current: 6A (max)

Output power: 75w, (when the input and output voltages are both greater than 20V, it can reach 128W)

Conversion efficiency: 96.7%

Output ripple: 24mv (TYP)

Onboard voltmeter range: 4~40v, error +-0.1V

Short circuit protection: Yes (limit current 14A). Tips: When connecting to a high-power load, it is recommended to turn on the power first and then connect the load because the impact current is very large when the power is turned on.

Input reverse connection protection: None (if necessary, please connect a high current diode in series with the input).

Dimensions: Length*Width*Height 67*43*12MM