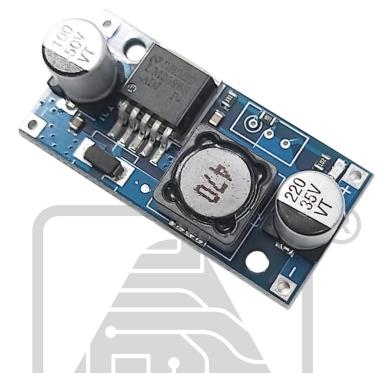
ADIY LM2596 Step Down



DC-DC Buck Converter Module 7.5V



Description:

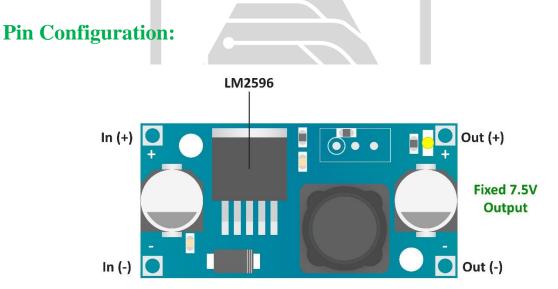
ADIY LM2596 Buck Converter module is an easy-to-use, nonsynchronous, step-down DC-DC converter with a wide input voltage range up to 40V. Output will be fix 7.5V.The module can deliver up to 3-A DC load current with excellent line and load regulation. If the current exceeds 2-A then heat sink is required. The input should be maintained always greater than required output. The recommended minimum input voltage is 9V if the current draw is higher than 1A.Since LM2596 converter is a switch-mode power supply, its efficiency is significantly higher in comparison with popular three-terminal linear regulators, especially with higher input voltages.

The LM2596 operates at a switching frequency of 150 kHz thus allowing smaller sized filter components than what would be needed with lower frequency switching regulators. Other features include a $\pm 4\%$ tolerance on output voltage under specified input voltage and output load conditions, and $\pm 15\%$ on the oscillator frequency. External shutdown is included, featuring typically 80µA standby current. Self-protection features include a two stage frequency reducing current limit for the output switch and an over temperature shutdown for complete protection under fault conditions.



Specifications and Features:

- 1. Input Voltage: 3.2V- 40V DC
- 2. Output Voltage: 7.5V
- 3. Output Current: 2A, Max 3A (Additional Heat Sink is required)
- 4. Rectification: Non-Synchronous Rectification.
- 5. Thermal shutdown and current-limit protection.
- 6. Excellent line and load regulation specifications.
- 7. High efficiency.
- 8. TTL shutdown capability.
- 9. Low power standby mode, IQ, typically 80µA



IN+ VCC or VIN (4.5V - 40V)

IN- Ground, GND or V-

OUT+ Positive voltage of the power distribution circuit or a component powered

OUT- Ground of the power distribution circuit or a component powered



How it works:

- Connect the converter with the battery or other power source. Know how much voltage you have inputted in the converter.
- Set the multimeter to read the voltage and connect the output of the converter to it. Now you can already see the voltage on the output.
- User will get fix 7.5V output

Advantages:

- Power audio amplifier
- Solar charger
- Battery charger
- Quad Copters

Dimensions:

