

LM2596 Step Down Regulator Module

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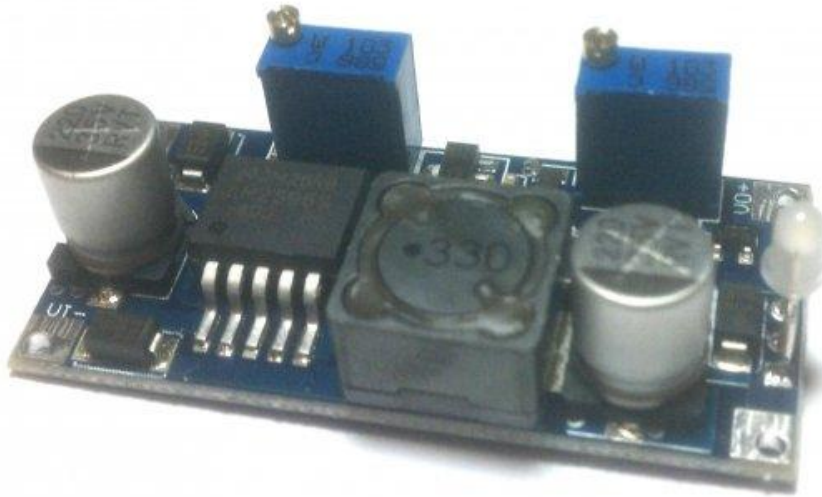


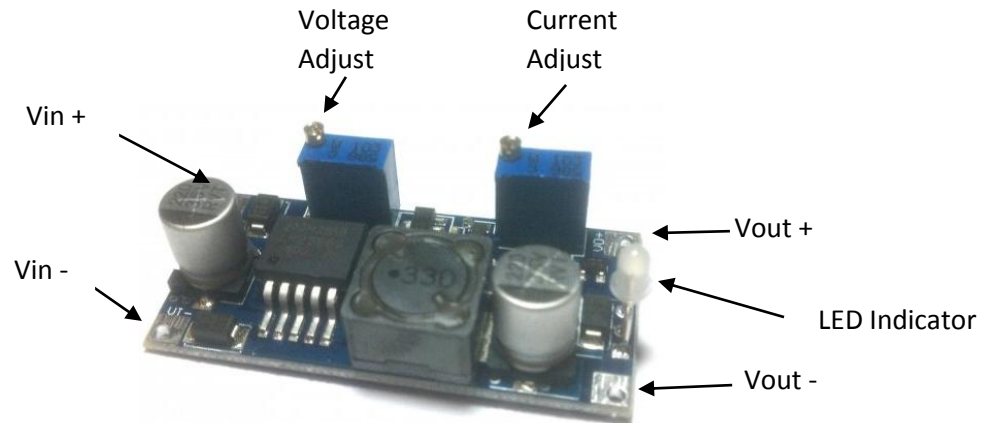
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Circuit Diagram:

To be obtained.

Pin Configuration:



Description of Pins:

Vin +	This goes to the positive of your power supply.
Vin -	This goes to the negative of your power supply
Vout +	This is the positive output voltage
Vout -	This is the negative output voltage
Current Adjust*	This variable resistor (potentiometer) controls the maximum output current. Use a multimeter set to 10A and simply short the terminals through it to adjust to desired amperage. Turn clockwise for higher.
Voltage Adjust*	This variable resistor (potentiometer) controls the maximum output voltage. Use a multimeter set to DC voltage and adjust until you get to the desired voltage. Turn clockwise for higher.
LED Indicator	This LED changes color based on what the module is doing. Green indicates constant voltage. Red indicates constant current.

*Note: The voltage and current adjustments are just the maximums. The circuit you attach to this will determine what is drawn through Ohm's Law. For example, if you have it set for 10V max and 1A max and short the terminals through a 100Ω resistor the output would be 10V at .1A (100mA). If the same settings were kept and a 1Ω resistor was shorted, the output would be 1V at 1A.

If you would like to just have constant voltage or constant current and do not care about the other, simply set the other one as high as it can go.

Electrical Characteristics:

Maximum Input Voltage	40V (35V recommended max)
Lowest Input Voltage	4.5V (5.5V recommended)
Maximum Output Voltage	Input Voltage – 1.5V
Maximum Output Current	3A
Realistic Max Output Voltage	Input Voltage – 2 V
Realistic Max Output Current	~2.8-2.9A (modules do vary on this)
Maximum Power without heat sink	15W
Efficiency	Varies based on how far the voltage is stepped down (the further the difference the less efficient)
Maximum Efficiency	92%