



KAmo^d LM2596



Rev. 20250603065634

Źródło: https://wiki.kamamilabs.com/index.php?title=KAmo^d_LM2596

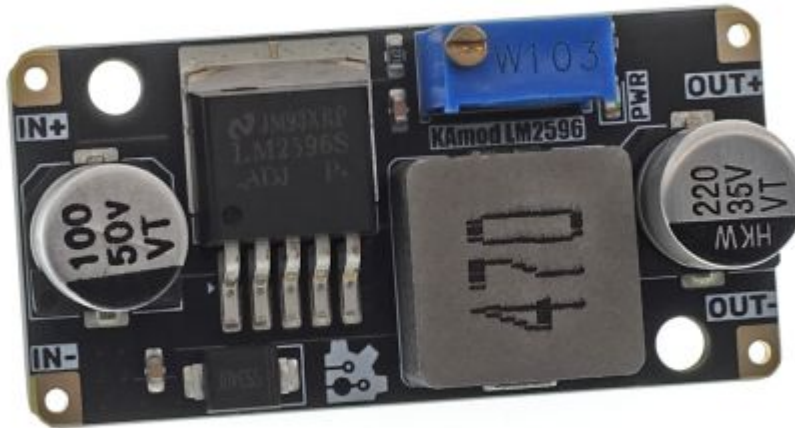
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Description

KAmoD LM2596 - 3A Step-down DC-DC Converter Module with LM2596

The Step-down DC-DC converter module with LM2596S provides effective voltage regulation in a wide range of 1.5-35 V, achieving high efficiency of up to 92%. Thanks to its compact dimensions, precise regulation and universal applications, it is ideal for DIY projects, modeling and as a tool in electronics laboratories. The module's leads have been arranged in a 2.54 mm pitch and allow for soldering wires or gelpins.



Basic parameters

- Wide range of input voltage values: 3 - 40 V
- Adjustable output voltage: 1.5 - 35 V

- Potentiometer for smooth, precise adjustment of the output voltage
- Maximum current: 3 A (when cooling is used)
- Operating frequency: 150 kHz
- High efficiency: 92%
- Operating temperature range: -40...85°C
- Diameter of mounting holes: $\varnothing 3$ mm
- Dimensions: 43 x 21 x 14 mm

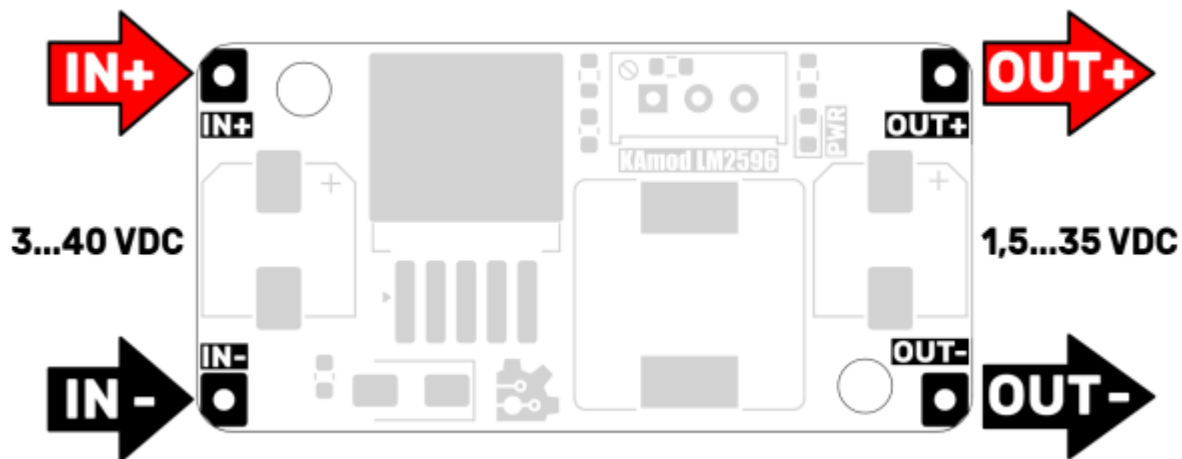
Standard Equipment

Code	Description
KAmo LM2596	• Assembled and powered up module

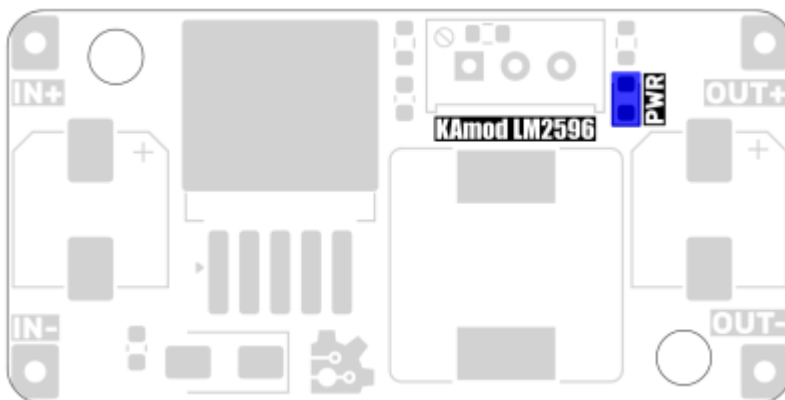
Pinout and Functions

Designation	Function
IN+	Power supply input - positive pole
IN-	Power supply input - negative pole (ground)
OUT+	Output voltage - positive pole
OUT-	Output voltage - negative pole (ground)

The layout of outputs and inputs, along with the marked voltage polarity, is shown in the figure below:

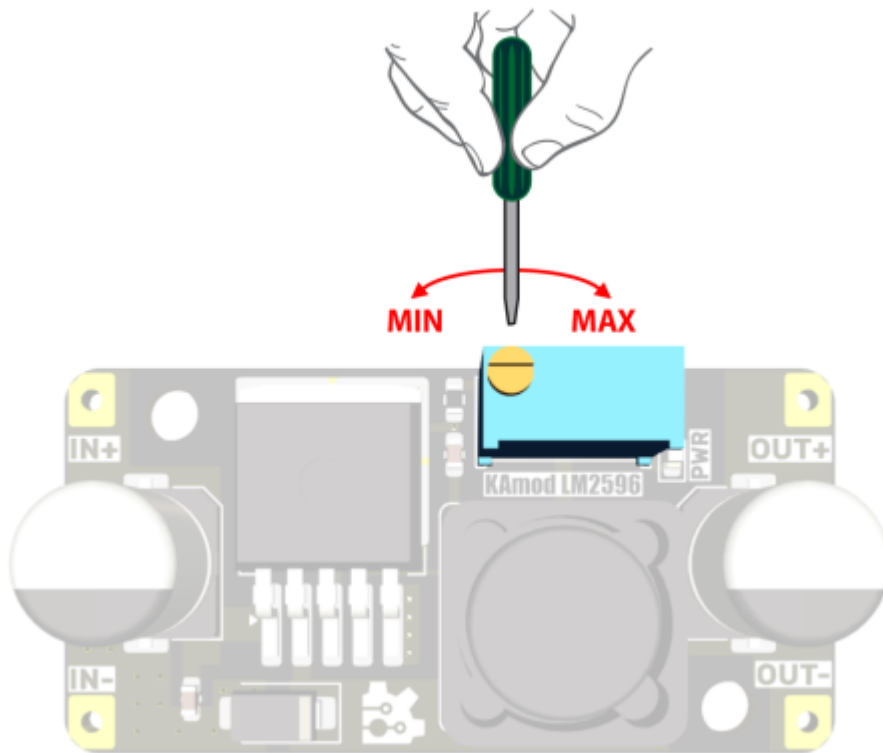


The presence of output voltage is indicated by the LED - PWR. The LED will light up if the output voltage is higher than 2 V



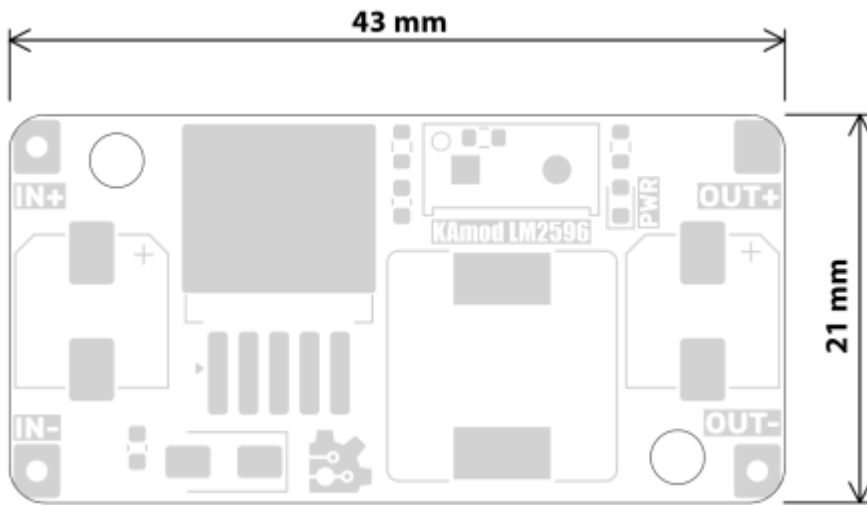
Setting the output voltage value

The output voltage of the **Kamod LM2596** module is smoothly regulated by a potentiometer in a very wide range. The input voltage must be about 1.5 V higher than the assumed output voltage.



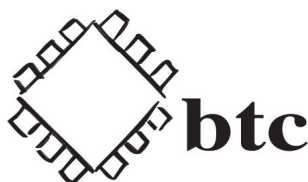
Dimensions

The dimensions of the **KAmod LM2596** board are 43x21 mm, and the height is about 14 mm.



Links

- [Datasheet of the LM2596](#)



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