KAMAMI

# KAmod DCDC AP63300


Rev. 20260404123958
Źródło: https://wiki.kamamilabs.com/index.php?title=KAmod_DCDC_AP63300

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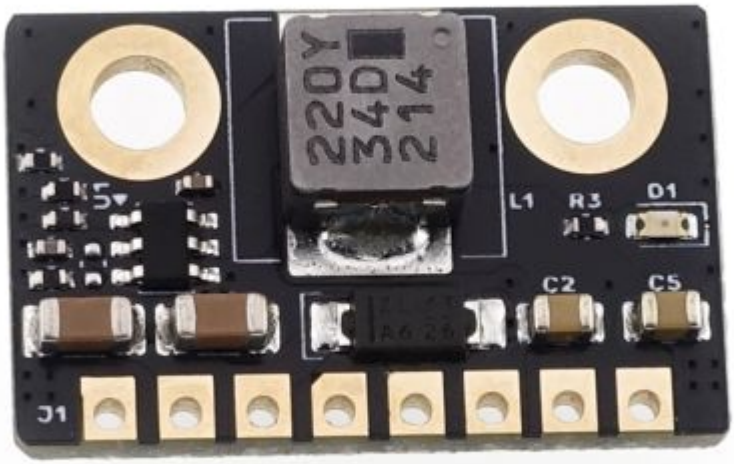
# Description

**KAmod DCDC AP63300 - Switching regulator module with selectable output voltage**

The KAmod DCDC AP63300 is a compact switching regulator module. With small dimensions of 24x16 mm, it operates with an input voltage of up to 32 V and an output load of up to 2 A. The module can provide one of 3 output voltages: 3.3 V, 5 V, or 12 V.




# Basic Parameters

- Input voltage range: 3.5…32 V
- Maximum continuous output current: 1 A
- Maximum peak output current: 2 A (duration depends on thermal conditions)
- Available output voltages: 3.3 V, 5 V, or 12 V, selected via SMD jumper configuration
- Input voltage should be at least 1 V higher than the expected output voltage
- Enable input (ENA) for switching the regulator to standby mode
- Switching regulator type: AP63300
- DC/DC converter operating frequency: 500 kHz
- Efficiency: approx. 90% at 1 A load
- Protection against overvoltage, overload, and overheating
- Compact dimensions: 24x16 mm

# Standard Equipment

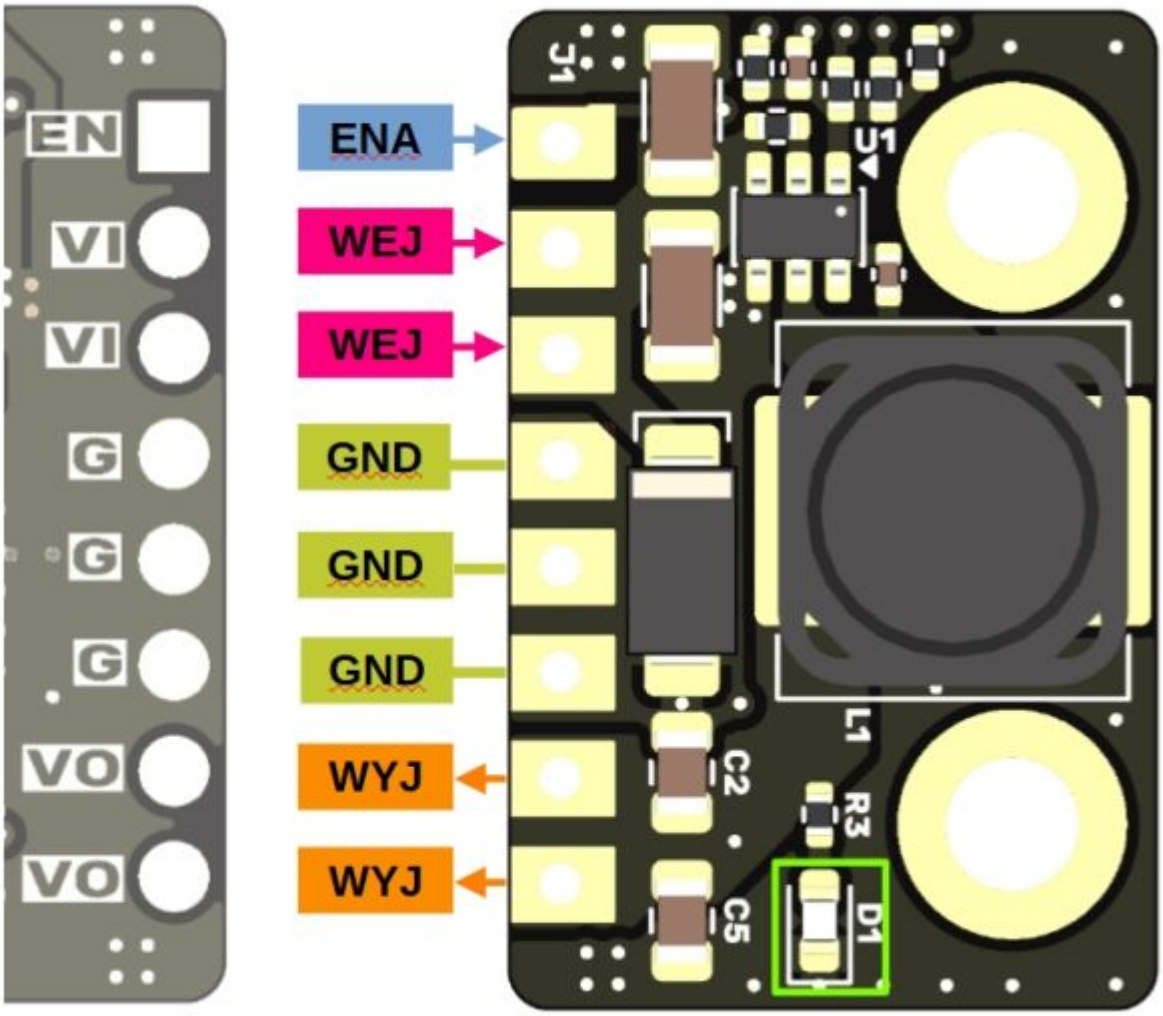
| Code | Description |
|---|---|
| **KAmod DCDC AP63300** | • Assembled and tested module |

# Connection Diagram

Pads with holes arranged in a 2.54 mm pitch are located on the edges of the module board. Goldpin headers or wires can be soldered to them. The power input (WEJ), output (WYJ), and ground (GND) each have several pads, allowing the module to be optimally adapted to the target application.

The ENA (EN) input is pulled up to the positive power supply pole (WEJ), causing the regulator to start immediately after connecting the power (the ENA input can remain unconnected). Connecting GND to this input will turn off the regulator, resulting in no output voltage and negligible current consumption – just a few µA.

The lighting of the D1 LED indicates the presence of output voltage.



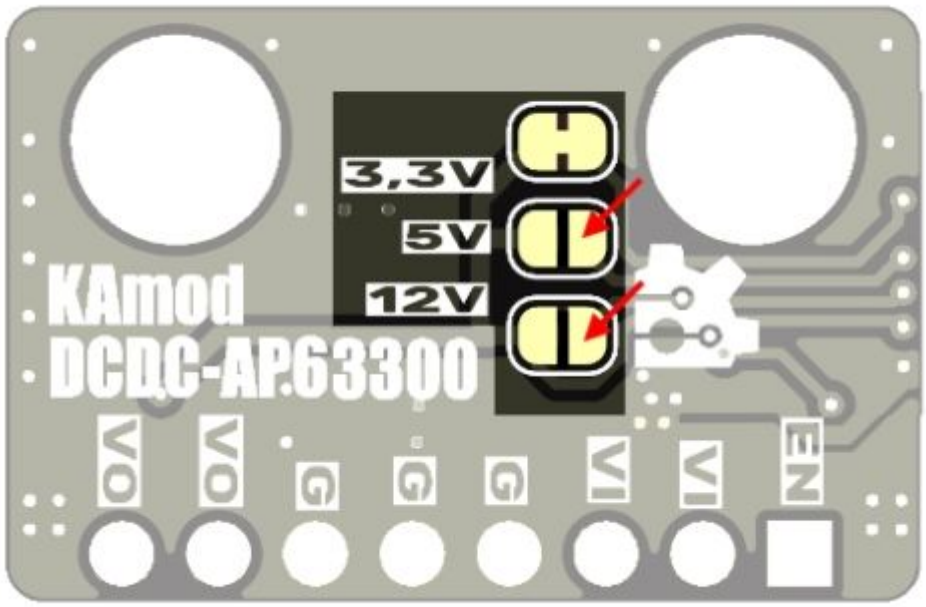

# Output Voltage

The KAmod DCDC AP63300 module is prepared to provide 3.3 V, 5 V, or 12 V.

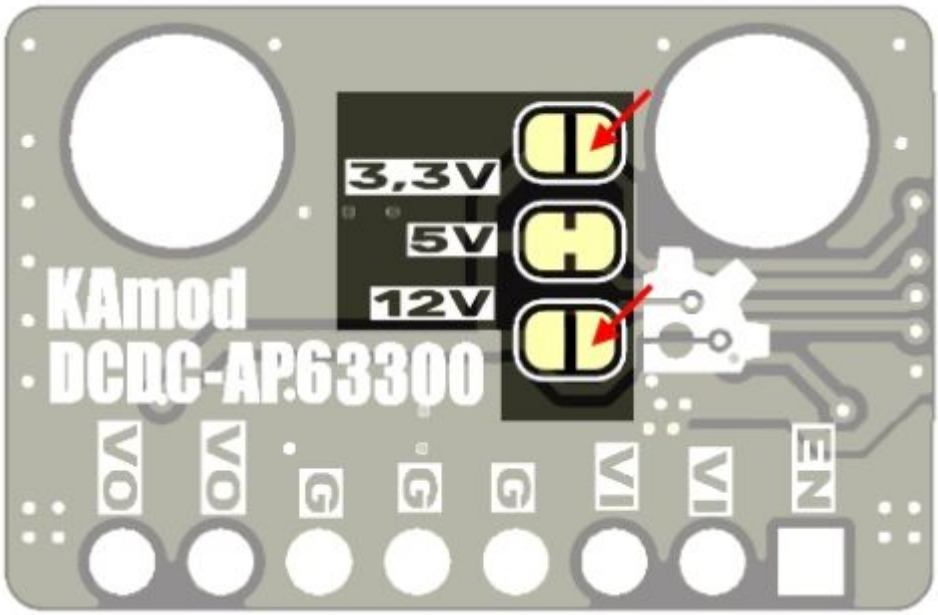
**A simple configuration must be performed before using the module.**

There are three SMD jumpers on the bottom of the board, and each of them has connected pads. To configure the output voltage, leave only the pads connected for the jumper corresponding to the desired voltage value. The pads of the remaining jumpers should be separated – cut the connection with a sharp tool, such as a scalpel. The figures show the configuration for all variants. If necessary, cut jumpers can be reconnected using a drop of solder.

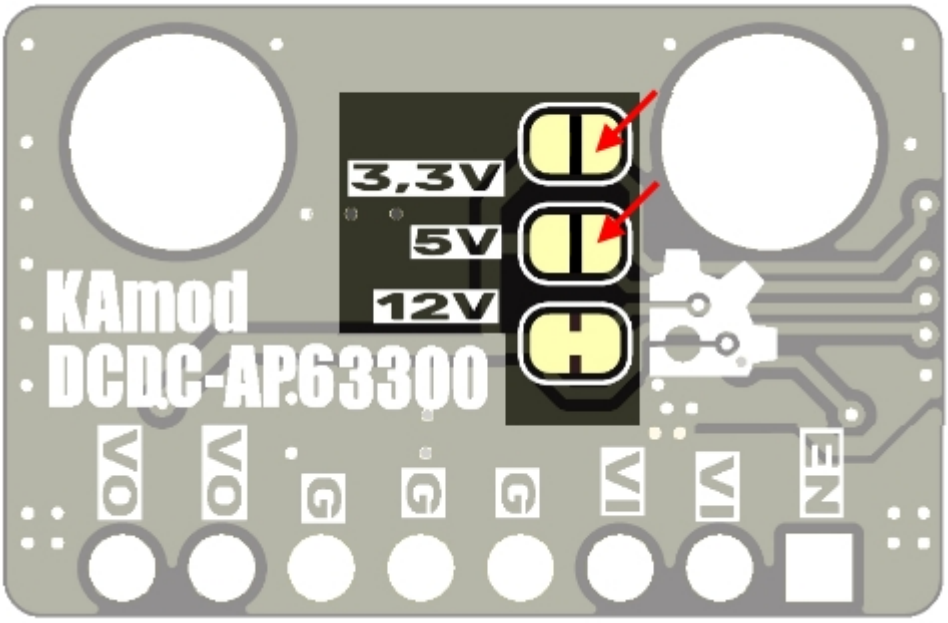
**3.3 V Output Voltage**




**5 V Output Voltage**

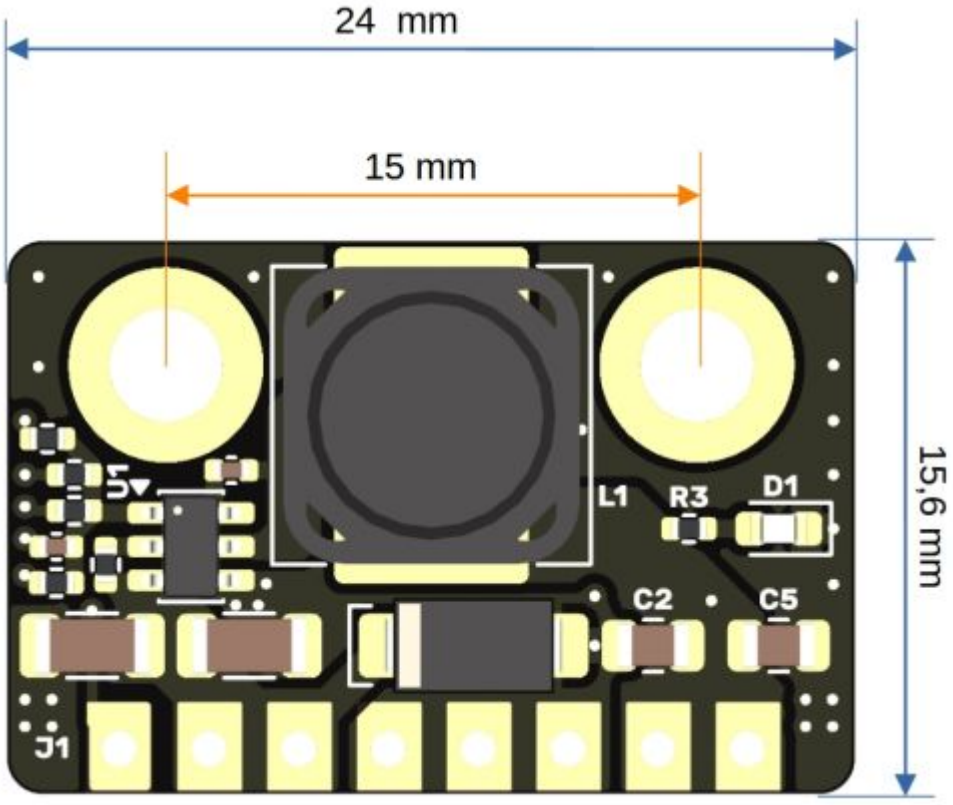



**12 V Output Voltage**




## Dimensions

The exact dimensions of the module are 24x15.6 mm. Pads with holes arranged in a 2.54 mm pitch are located on the edges of the board. The board has 2 mounting holes with a diameter of 3 mm, spaced 15 mm apart.



# Links

- AP63300 Datasheet

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