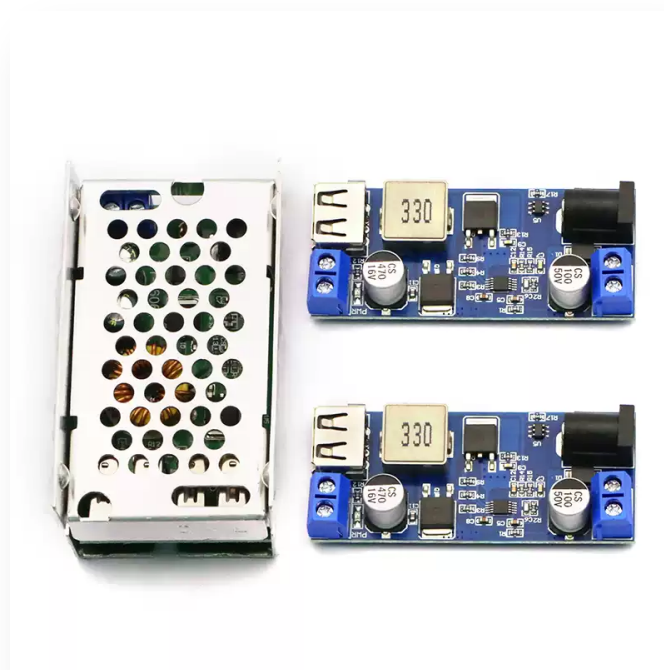


5 V High-Current Synchronous Buck Converter Module

9-36 V input DC-DC regulator with USB and terminal outputs



Product Overview

A compact power-electronics module documented from the supplied archived product page. The specifications below separate confirmed ratings from operating guidance and identify the exact module variant where the source page contains multiple options.

Electrical and Mechanical Specifications

Parameter	Value
Conversion type	Synchronous DC-DC buck converter
Input voltage	9-36 VDC
Nominal output voltage	5.2 VDC
Output at 9-24 V input	Up to 6 A / 30 W
Output at 24-32 V input	Up to 5 A / 25 W
Output at 32-36 V input	Up to 3.5 A / 18 W
Output interfaces	USB Type-A and screw terminal
Input interfaces	DC barrel jack and screw terminal
Board dimensions	Approximately 63 × 27 mm
Protection	Input reverse-polarity protection diode

Key Features

- 9-36 V wide input range
- Synchronous high-efficiency conversion
- USB and terminal output connections
- Up to 30 W output under specified input conditions

Operating Notes

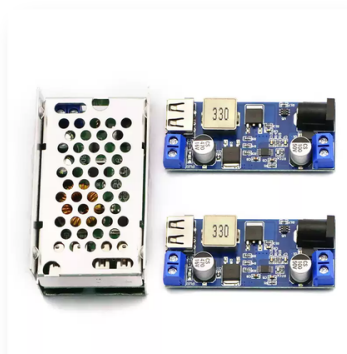
- Available power is derated at higher input-voltage ranges as listed.
- The page contains bare-board, enclosed and USB-C variants; this sheet describes the photographed USB-A module.
- Use short, low-resistance wiring for high-current operation.

Application and Connection Guide

APPLICATION & CONNECTION

9-36 V DC INPUT

Vehicle / DC source



5 V USB LOAD

5.2 V regulated

Verify polarity and configure voltage/current before connecting the load.

Connection Sequence

1. Confirm the input source is within the stated range. 2. Verify input and output polarity. 3. Configure voltage and current limits with the load disconnected. 4. Connect the load or battery. 5. Monitor temperature during initial operation.

KEY PRODUCT ADVANTAGES



- 1 9-36 V wide input range**
- 2 Synchronous high-efficiency conversion**
- 3 USB and terminal output connections**
- 4 Up to 30 W output under specified input conditions**