

3 A / 5 V USB Buck Charger Module

Vehicle and DC input converter for 9 V, 12 V or 24 V systems



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
Topology	Non-isolated DC-DC buck converter
Nominal input systems	9 V, 12 V or 24 VDC
USB output	5 VDC
Current class	3 A
Connector	Single USB Type-A output
Cooling	Power stage mounted on compact PCB
Typical use	Vehicle USB charging

Key Features

- 9 / 12 / 24 V system input
- Regulated 5 V USB output
- 3 A current class
- Compact vehicle charger board

Operating Notes

- Confirm input polarity before connection.
- Available charging current depends on input supply, cable and thermal conditions.
- Install with ventilation and short-circuit protection.

Application and Connection Guide

APPLICATION & CONNECTION

VEHICLE / DC INPUT

9 / 12 / 24 VDC



USB DEVICE

5 V output

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 / 12 / 24 V system input

2 Regulated 5 V USB output

3 3 A current class

4 Compact vehicle charger board