Dual-USB 5 V / 3 A Vehicle Buck Converter

6-35 V input regulator for vehicle and solar-powered USB charging

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
Input voltage	6-35 VDC
Output voltage	5 VDC
Maximum output current	3 A total; long-duration use within 2 A recommended by source
No-load consumption	Less than 25 mA
Switching frequency	180 kHz
Typical efficiency	93%
Operating temperature	-40 to +85 C
Protection	Over-temperature, input reverse-polarity and over-current protection
Output indication	LED
Connections	Input screw terminal and dual USB Type-A

Key Features

- Wide 6-35 V vehicle input
- Dual USB charging outputs
- 3 A maximum output class
- Integrated protection functions

Operating Notes

- For continuous operation, keep total current at or below 2 A unless cooling is validated.
- Use a fused DC input and observe polarity.
- Total output current is shared by both USB ports.

Application and Connection Guide

APPLICATION & CONNECTION

VEHICLE / SOLAR INPUT

6-35 VDC

USB DEVICES

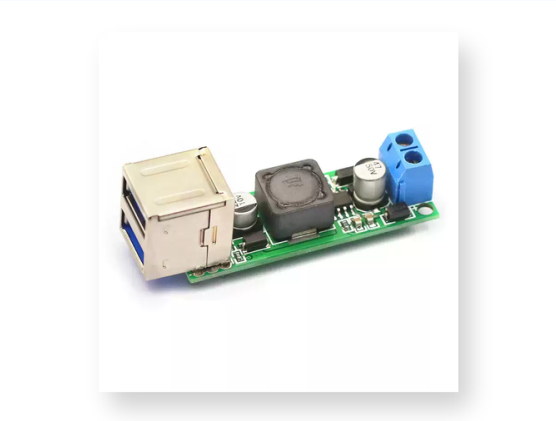
5 V / 3 A max

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. **Wide 6-35 V vehicle input**
2. **Dual USB charging outputs**
3. **3 A maximum output class**
4. **Integrated protection functions**