

5 A MPPT Solar CC/CV Buck Controller

Digital step-down charging module with voltage and current display



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 controller
Maximum current class	5 A
Control modes	Constant voltage and constant current
Solar function	MPPT-style input-voltage tracking control
Display	Dual digital voltage/current display
Adjustment	Independent voltage, current and tracking controls
Connections	Input and output screw terminals
Cooling	Integrated heatsink

Key Features

- 5 A charging class
- CC/CV regulation
- Digital voltage/current display
- Solar input tracking control

Operating Notes

- The saved page does not expose a complete reliable voltage range.
- Configure battery charge voltage and current before connection.
- Provide airflow and confirm solar-source limits at high current.

Application and Connection Guide

APPLICATION & CONNECTION

SOLAR PANEL INPUT

Higher DC voltage



BATTERY / DC LOAD

Controlled CC/CV

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 **5 A charging class**
- 2 **CC/CV regulation**
- 3 **Digital voltage/current display**
- 4 **Solar input tracking control**