80 W / 5 A Digital Buck-Boost Power Supply

Programmable CC/CV converter for solar charging and adjustable DC power

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	Automatic non-isolated buck-boost converter
Input voltage	6.0-36 VDC
Output voltage	0.6-36 VDC
Output current	0-5.100 A
Maximum power	80 W with natural cooling
Control modes	Constant voltage and constant current
Voltage resolution	0.01 V
Current resolution	0.001 A
Interface	Digital display, rotary control and output enable

Key Features

- Automatic buck-boost regulation
- 80 W / 5 A output class
- Digital CC/CV control
- High-resolution metering

Operating Notes

- Observe the simultaneous voltage, current and 80 W power limits.
- Configure battery charge settings for the connected chemistry.
- Use forced-air cooling when enclosure temperature or load demands require it.

Application and Connection Guide

APPLICATION & CONNECTION

DC / SOLAR INPUT

6-36 VDC

LOAD / BATTERY

0.6-36 VDC

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. **Automatic buck-boost regulation**
2. **80 W / 5 A output class**
3. **Digital CC/CV control**
4. **High-resolution metering**