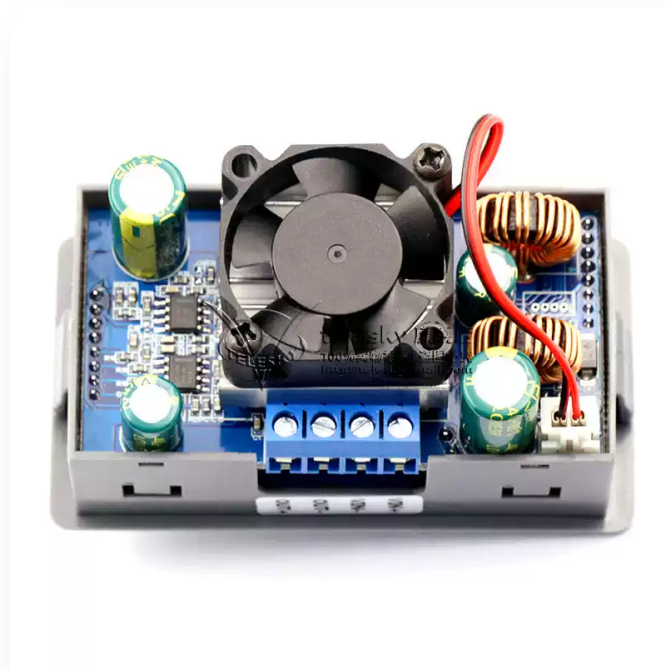


XY3580 Programmable Buck-Boost Power Supply

80 W, 5 A CC/CV module for bench and solar-charging use



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
Input voltage	6.0–36 VDC; absolute 5.5–38 V
Output voltage	0.6–36 VDC
Output current	0–5.000 A
Maximum output power	80 W
Input current limit	7 A
Voltage resolution	0.01 V
Current resolution	0.001 A
Voltage accuracy	±0.3% + 1 digit
Current accuracy	±0.4% + 3 digits
Capacity / energy / time	0–999999 Ah / 0–999999 Wh / 0–1000 h
Dimensions	78 × 42 × 22 mm

Key Features

- True buck-boost regulation
- 80 W / 5 A output class
- CC/CV programmable control
- Energy and capacity metering

Operating Notes

- 80 W is the module limit; available output also depends on input voltage and cooling.
- Configure charge voltage and current for the battery chemistry.
- Observe the 38 V absolute maximum input.

Application and Connection Guide

APPLICATION & CONNECTION

DC / SOLAR INPUT

6–36 VDC



LOAD / BATTERY

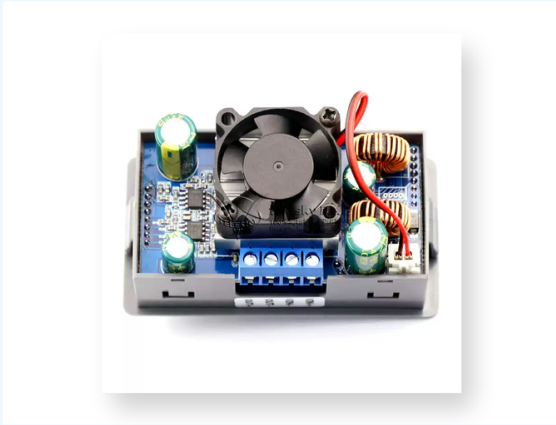
0.6–36 VDC

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 **True buck-boost regulation**
- 2 **80 W / 5 A output class**
- 3 **CC/CV programmable control**
- 4 **Energy and capacity metering**