

XY-UDP USB Programmable Buck-Boost Power Module

15 W, 2 A CC/CV supply with 1.44-inch color 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
Input voltage	3.5–15 VDC; absolute 3.0–16 V
Output voltage	0.60–30.00 VDC
Output current	0–2.000 A
Maximum output power	15 W
Display	1.44-inch color LCD, 160° viewing angle
Voltage resolution	0.01 V
Current resolution	0.001 A
Voltage accuracy	±0.3% + 1 digit
Current accuracy	±0.5% + 3 digits
Capacity / energy / time	0–999999 Ah / 0–999999 Wh / 0–1000 h
Dimensions	85 × 40 × 15 mm

Key Features

- USB-powered buck-boost output
- Color display and live metering
- CC/CV programmable control
- Short-circuit and anti-backfeed hardware

Operating Notes

- Software protections include over-voltage, over-current, over-power, over-temperature and under-voltage limits.
- Respect the 15 W and 2 A limits simultaneously.
- Confirm polarity at the output terminal block.

Application and Connection Guide

APPLICATION & CONNECTION

USB / DC INPUT

3.5-15 VDC



PROGRAMMABLE LOAD

0.6-30 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 USB-powered buck-boost output

2 Color display and live metering

3 CC/CV programmable control

4 Short-circuit and anti-backfeed hardware