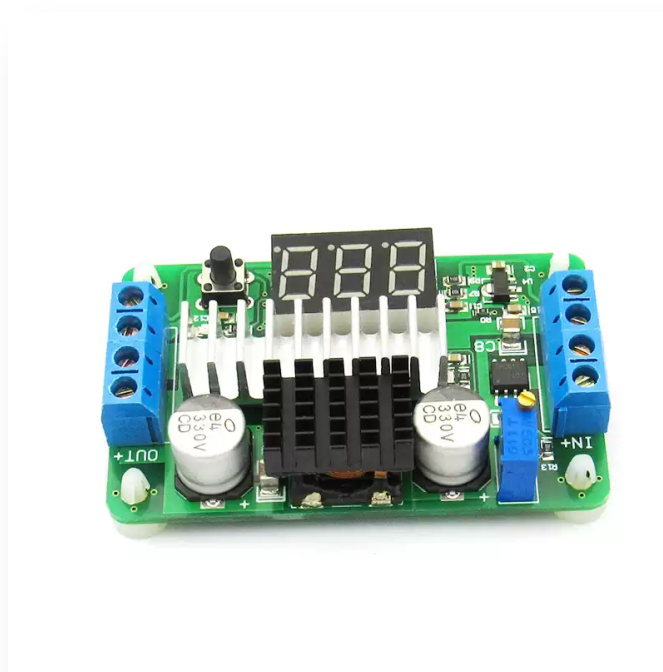


LTC1871 100 W Digital Boost Converter

3.5-30 V input step-up module with dual voltage 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
Controller	LTC1871
Topology	Non-isolated DC-DC boost converter
Input voltage	3.5-30 VDC
Maximum power class	100 W
Display	Dual-path digital voltage display
Output	Adjustable boosted DC voltage
Cooling	Integrated heatsinks
Connections	Input and output screw terminals

Key Features

- LTC1871 boost controller
- 3.5-30 V input range
- 100 W power class
- Dual digital voltage display

Operating Notes

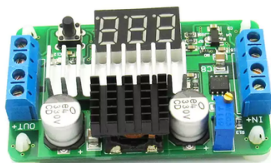
- This is a boost converter; output must remain above input.
- Set output voltage before connecting the load.
- Maximum power requires suitable airflow and source capacity.

Application and Connection Guide

APPLICATION & CONNECTION

DC INPUT

3.5-30 VDC



HIGHER-VOLTAGE LOAD

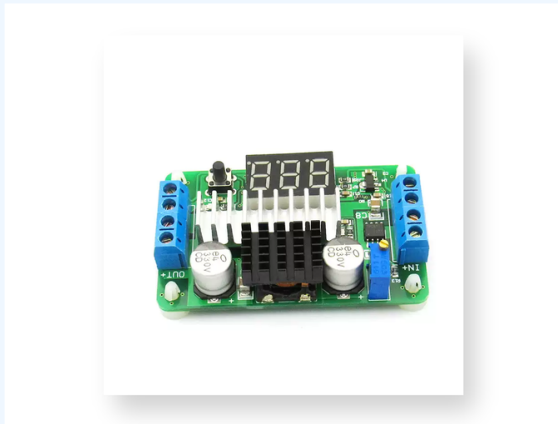
Adjusted output

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 LTC1871 boost controller

2 3.5-30 V input range

3 100 W power class

4 Dual digital voltage display