

Type-C Li-ion Charge and Adjustable Boost Module

Single-cell charger with adjustable boosted output



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
Battery	Single 3.7 V nominal / 4.2 V full-charge Li-ion cell
Charging input	4.5-8 VDC
Charge termination voltage	4.2 V
Maximum charge current	1 A
Adjustable output	Approximately 4.3-27 VDC
Maximum discharge current	2 A
Reference output capability	5 V / 1.4 A; 9 V / 0.8 A; 12 V / 0.6 A
Quiescent current	Approximately 0.5 mA
Overcharge protection	Included
Board dimensions	Approximately 33 x 23 mm

Key Features

- Single-cell charging and boost output
- 4.3-27 V adjustable output
- USB Type-C interface
- Compact 33 x 23 mm board

Operating Notes

- Adjust output voltage before attaching the load.
- The page states that a separate protection board may be required for stronger over-discharge protection.
- Observe BAT, IN and OUT polarity markings.

Application and Connection Guide

APPLICATION & CONNECTION

TYPE-C DC INPUT

4.5-8 VDC



ADJUSTABLE DC LOAD

4.3-27 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 Single-cell charging and boost output

2 4.3-27 V adjustable output

3 USB Type-C interface

4 Compact 33 x 23 mm board