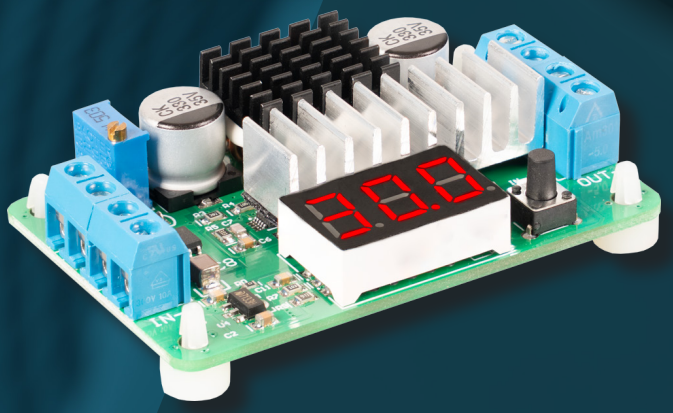
COMPACT DC-DC BOOST CONVERTER

RELIABLE VOLTAGE STEP-UP SOLUTION WITH INTEGRATED VOLTAGE DISPLAY

SPECIAL FEATURES

- Wide input range: 4 – 30 V DC → up to 30 V DC output
- High efficiency up to 95 %
- 100 W max. output power / 5 A load capability
- Integrated LED voltage display with selectable modes
- Compact and easy to install with screw terminals
- Stable performance with ±0.5 % + 1 digit measurement accuracy



The SBC-Boost01 is a compact and efficient DC-DC boost converter designed to increase low DC input voltages to stable, higher output levels. With its wide 4 – 30 V DC input range and up to 30 V DC output (depending on input voltage), it provides an extremely flexible solution for powering electronics, embedded systems, LED projects, communication devices, and mobile equipment.

Delivering up to 100 W output power and supporting load currents up to 5 A, this boost converter ensures reliable performance in both prototyping and permanent installations. High conversion efficiency of up to 95 % (typ. 18–30 V / 2 A) minimizes heat generation and energy loss, making it ideal for battery-powered applications.

The module features a bright 0.36″ red 3-digit LED display that can show either input voltage, output voltage, alternate switching between both values, or be turned off entirely. This allows instant visual feedback without the need for separate test equipment.

Screw terminals provide easy and secure wiring, while the compact form factor (67 × 42 × 20 mm) makes integration into enclosures or device panels straightforward. With a voltage measurement accuracy of ±0.5 % + 1 digit, the integrated meter supports reliable system monitoring during operation.

Whether used in hobby electronics, battery systems, field robotics, DIY power supplies, or renewable-energy test projects — the SBC-Boost01 offers a powerful, robust, and user-friendly step-up power solution.

TECHNICAL SPECIFICATIONS

Input voltage	4 V - 30 V DC
Output voltage	4 V - 30 V DC (≥ input voltage)
Input current	5 A
Output power	100 W max.
Display	3-digit segment display
Display size	0.36" per digit
Display colour	Red
Display mode	Input voltage / output voltage / alternating / off
Voltage meter accuracy	±0.5% + 1 digit
Connections	Screw terminals
Special feature	Defaul display mode can be switched between Input voltage, output voltage and alternating

EFFICIENCY

4 V to 5 V / 2A	78 %
5 V to 12 V / 2A	83 %
12 V to 18 V / 2A	94 %
18 V to 24 V / 2A	95 %
24 V to 30 V / 2A	95 %

ADDITIONAL INFORMATION

Weight	37 g
Dimensions	67 x 42 x 20 mm
Article no.	SBC-Boost01
Items shipped	1x Boost converter
Customs tariff number	8504312190
EAN	4250236830919