Step-up DC-DC Converter — 300 × 195 × 90 mm Case, 12 V to 24 V, 80–200 A

High-current step-up converter for 12 V DC systems: 9–16 V DC input, 24 V DC output at 80 A to 200 A (1920 W to 4800 W), in one sealed IP67 case with INPUT / GND / OUTPUT studs.

KEY FEATURES

- Input **DC 12 V (9–16 V)**
- Output **24 V**, held to ± 0.25 V
- **80 A to 200 A** in this case — 1920 W to 4800 W
- **300 × 195 × 90 mm** finned heat-sink block with mounting flanges, **5 kg**
- **90 % transfer efficiency** at rated load
- **IP67** — dust-tight, immersion to 1 m for 30 min
- Over-current and over-heating protection, cut-off at 150 °C
- Working temperature **−20 °C to 85 °C**; certified to **CE, FCC and RoHS**

MODELS BUILT IN THIS CASE

Model	Input version	Output current	Output power
12V-24V	12 V (9–16 V)	80 A / 100 A / 150 A / 200 A	1920 W / 2400 W / 3600 W / 4800 W

Ordering model = voltage pair + current rating, e.g. **12V-24V 200A**. Output power is the rated output voltage multiplied by the output current. Other voltage pairs of the same series are built in the 66 × 58 × 23 mm, 74 × 74 × 32 mm, 100 × 80 × 38 mm and 220 × 127 × 63 mm cases.

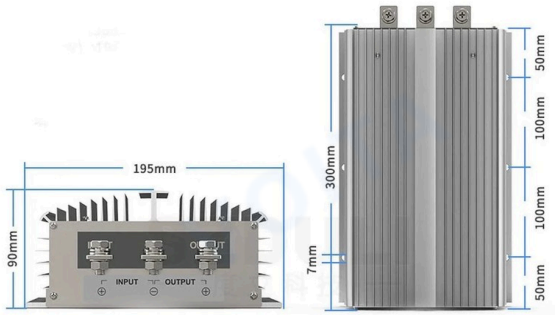
ELECTRICAL SPECIFICATION

Input voltage	DC 12 V (9–16 V)
Output voltage	24 V, held to ± 0.25 V
Output current	80 A to 200 A in this case
Output power	1920 W to 4800 W in this case
Transfer efficiency	90 % typical at rated load
Protection	Over-current, over-heating; cut-off at 150 °C
Working temperature	−20 °C to 85 °C

Ripple and noise, no-load input current and MTBF are not published for this case size — available on request.

MECHANICAL AND COMPLIANCE

Case size (mm)	300 × 195 × 90
Net weight	5 kg
Housing	Finned aluminium extrusion with mounting flanges, sealed
Terminals	Three threaded studs, marked INPUT / GND / OUTPUT
Mounting slots	Along both long edges, 50 / 100 / 100 / 50 mm
Ingress protection	IP67 — sealed housing, no vents or fan intake
Certification	CE, FCC, RoHS
Warranty	2 years standard, extendable by agreement



End face 195 × 90 mm and top view 300 mm — mounting slots at 50 / 100 / 100 / 50 mm.

Custom requirements. If the model you need is not listed, send input range, output voltage, output current, case or connector preference and quantity — we will quote a customized build.

© 2026 Guangzhou VOITA Electronic Technology Co., Ltd. · www.voitatech.com

inquiry@voitatech.com · +86 191 5742 1386