Step-up DC-DC Converter — 100 × 80 × 38 mm Case, 19 V to 48 V Output

Step-up converter for 12 V and 24 V DC systems: 9–16 V or 18–45 V DC input, 19–48 V DC output at 10 A to 25 A, packaged in one sealed IP67 case.

KEY FEATURES

- Two input versions — **12 V (9–16 V)** or **24 V (18–45 V)** DC
- Outputs at **19 / 24 / 28 / 36 / 48 V**, held to ± 0.25 V
- **10 A to 25 A** in this case — 285 W to 960 W
- **100 × 80 × 38 mm** finned heat-sink case, 0.5 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-19V	12 V (9–16 V)	15 A / 20 A	285 W / 380 W
12V-24V	12 V (9–16 V)	15 A / 20 A / 25 A	360 W / 480 W / 600 W
12V-28V	12 V (9–16 V)	15 A / 20 A	420 W / 560 W
12V-36V	12 V (9–16 V)	10 A	360 W
12V-48V	12 V (9–16 V)	10 A	480 W
12V/24V-48V	12 V (9–16 V) or 24 V (18–45 V)	10 A	480 W
24V-48V	24 V (18–45 V)	10 A / 15 A / 20 A	480 W / 720 W / 960 W

Ordering model = model prefix + current rating, e.g. **12V-24V 25A**. All models use the same 100 × 80 × 38 mm case and 0.5 kg; output power is the rated output voltage multiplied by the output current. Some ratings, e.g. 12V-24V 15A, are also built in other case sizes.

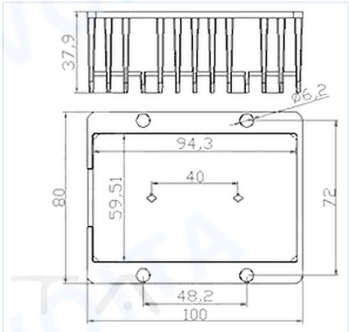
ELECTRICAL SPECIFICATION

Input voltage	DC 12 V (9–16 V) or DC 24 V (18–45 V) — two input versions
Output voltage	19 V / 24 V / 28 V / 36 V / 48 V, held to ± 0.25 V
Output current	10 A to 25 A in this case
Output power	285 W to 960 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)	100 × 80 × 38
Leads	Four fly leads: input +, input −, output +, output −
Net weight	0.5 kg
Ingress protection	IP67 — sealed housing, no vents or fan intake
Certification	CE, FCC, RoHS
Warranty	2 years standard, extendable by agreement



Case dimensions in mm — 100 × 80 × 38 mm; body height 37.9 mm, mounting holes ⌀6.2 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.

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