Step-up DC-DC Converter — 74 × 74 × 32 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 3 A to 15 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
- **3 A to 15 A** in this case — 95 W to 360 W
- **74 × 74 × 32 mm** finned heat-sink case, 0.26 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)	5 A / 8 A / 10 A	95 W / 152 W / 190 W
12V-24V	12 V (9–16 V)	5 A / 8 A / 10 A / 12 A / 15 A	120 W / 192 W / 240 W / 288 W / 360 W
12V-28V	12 V (9–16 V)	10 A	280 W
12V-36V	12 V (9–16 V)	5 A	180 W
12V-48V	12 V (9–16 V)	3 A / 5 A / 6 A	144 W / 240 W / 288 W
24V-48V	24 V (18–45 V)	3 A / 5 A / 6 A	144 W / 240 W / 288 W

Ordering model = model prefix + current rating, e.g. **12V-24V 15A**. All models use the same 74 × 74 × 32 mm case and 0.26 kg; output power is the rated output voltage multiplied by the output current. Other case sizes cover the remaining current ranges.

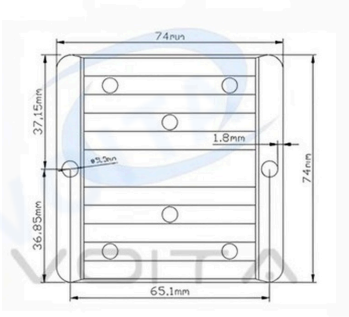
ELECTRICAL SPECIFICATION

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	3 A to 15 A in this case
Output power	95 W to 360 W in this case
Transfer efficiency	90 % typical at rated load
Over-heating protection	Cut-off at 150 °C
Protection	Over-current, over-heating
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)	74 × 74 × 32
Body width (mm)	65.1
Mounting holes	Ø5.2 mm
Net weight	0.26 kg
Ingress protection	IP67 — sealed housing, no vents or fan intake
Certification	CE, FCC, RoHS
Warranty	2 years standard, extendable by agreement



Plan view, dimensions in mm — mounting hole line 37.15 mm from the top and 36.85 mm from the bottom; fin step 1.8 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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