Step-up DC-DC Converter — 300 × 127 × 63 mm Case, 24 V to 48 V at 50 A

Long-body step-up converter for 24 V DC systems: 18–45 V DC input, 48 V DC output at 50 A (2400 W), in one sealed IP67 case with INPUT / GND / OUTPUT studs.

KEY FEATURES

- Input **DC 24 V (18–45 V)**
- Output **48 V**, held to ± 0.25 V
- **50 A** — 2400 W
- **300 × 127 × 63 mm** long-body finned heat-sink case, **2.5–2.6 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**

MODEL BUILT IN THIS CASE

Model	Input version	Output current	Output power
24V-48V	24 V (18–45 V)	50 A	2400 W

Ordering model = **24V-48V 50A**. Output power is the rated output voltage multiplied by the output current. Other voltage pairs and currents 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.

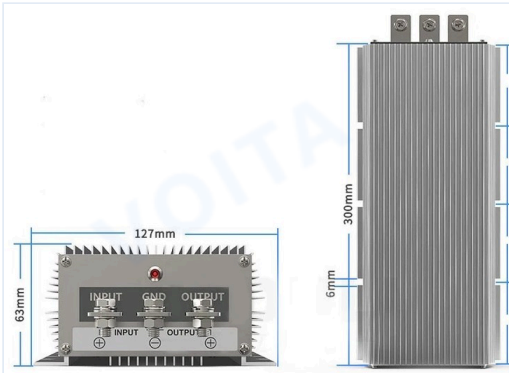
ELECTRICAL SPECIFICATION

Input voltage	DC 24 V (18–45 V)
Output voltage	48 V, held to ± 0.25 V
Output current	50 A
Output power	2400 W
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 × 127 × 63
Net weight	2.5–2.6 kg
Housing	Finned aluminium extrusion, sealed
Terminals	Three threaded studs, marked INPUT / GND / OUTPUT
Mounting slots	Along both long edges, 75 mm slot spacing — see drawing below
Ingress protection	IP67 — sealed housing, no vents or fan intake
Certification	CE, FCC, RoHS
Warranty	2 years standard, extendable by agreement



End face 127 × 63 mm and top view 300 mm — slots at 75 mm spacing.

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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