# Step-up DC-DC Converter — 100 × 113 × 35 mm Case, 12 V to 48 V, 10 A

Compact 480 W step-up converter for 12 V DC systems: 9–16 V DC input, 48 V DC output at 10 A, in a slim sealed finned case with a screw terminal block and an in-line blade-fuse holder.

## KEY FEATURES

- Input **DC 12 V (9–16 V)**
- Output **48 V**, held to ± 0.25 V
- **10 A** — 480 W
- **100 × 113 × 35 mm** slim finned case, **0.5–0.6 kg**
- Screw terminal block with an in-line blade-fuse holder
- **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 |
|---|---|---|---|
| 12V-48V | 12 V (9–16 V) | 10 A | 480 W |

Ordering model = voltage pair + current rating, i.e. **12V-48V 10A**. Output power is the rated output voltage multiplied by the output current. Our source table annotates this casing build as "10 A (10–60 V)" — ask us to confirm the exact input/output window for your application. Other voltage pairs of the same series are built in the 66 × 58 × 23 mm, 74 × 74 × 32 mm and 100 × 80 × 38 mm cases.

## ELECTRICAL SPECIFICATION

| | |
|---|---|
| Input voltage | DC 12 V (9–16 V) |
| Output voltage | 48 V, held to ± 0.25 V |
| Output current | 10 A |
| Output power | 480 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) | 100 × 113 × 35 |
| Net weight | 0.5–0.6 kg |
| Housing | Slim finned aluminium extrusion, sealed |
| Terminals | Screw terminal block with an in-line blade-fuse holder |
| Ingress protection | IP67 — sealed housing, no vents or fan intake |
| Certification | CE, FCC, RoHS |
| Warranty | 2 years standard, extendable by agreement |

Dimensional drawing for this case: available on request.

**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