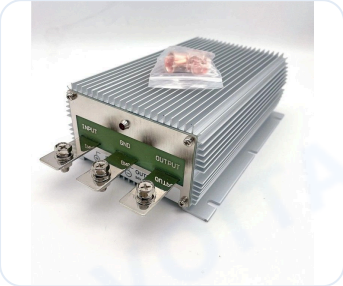
Step-up DC-DC Converter — 180 × 127 × 63 mm Case, 24 V / 28 V Output

Step-up converter for 12 V DC systems: 9–16 V DC input, 24 V or 28 V DC output at 30 A to 40 A (840 W to 960 W), in one sealed IP67 case with INPUT / GND / OUTPUT studs.



KEY FEATURES

- Input **DC 12 V (9–16 V)**
- Output **24 V or 28 V**, held to ± 0.25 V
- **30 A to 40 A** in this case — 840 W to 960 W
- **180 × 127 × 63 mm** finned heat-sink case, **1.8–2.0 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)	40 A	960 W
12V-28V	12 V (9–16 V)	30 A	840 W

Ordering model = voltage pair + current rating, e.g. **12V-24V 40A**. 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.

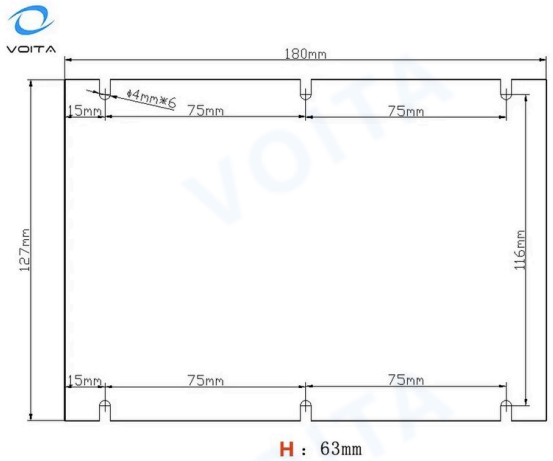
ELECTRICAL SPECIFICATION

Input voltage	DC 12 V (9–16 V)
Output voltage	24 V or 28 V, held to ± 0.25 V
Output current	30 A to 40 A in this case
Output power	840 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)	180 × 127 × 63
Net weight	1.8–2.0 kg
Housing	Finned aluminium extrusion, sealed
Terminals	Three threaded studs, marked INPUT / GND / OUTPUT
Mounting slots	6 slots, Ø 4 mm holes, 15 mm from the edge, 75 mm pitch
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 — 180 × 127 × 63, six Ø 4 mm slots at 75 mm pitch.

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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