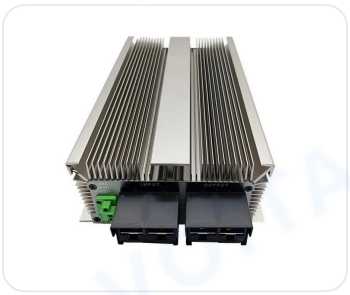
Step-up DC-DC Converter — 280 × 156 × 65 mm Case, 12 V to 28 V at 100 A

High-current step-up converter for 12 V DC systems: 9–16 V DC input, 28 V DC output at 100 A (2800 W), in a sealed flange-mount case with shrouded INPUT / OUTPUT connectors and a separate ACC connector.



KEY FEATURES

- Input **DC 12 V (9–16 V)**
- Output **28 V**, held to ± 0.25 V
- **100 A** — 2800 W
- **280 × 156 × 65 mm** sealed extruded case, **2.8–3.0 kg**
- Integrated finned heat sink — natural convection, no fan
- Shrouded INPUT / OUTPUT connectors, plus a separate ACC connector
- **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-28V	12 V (9–16 V)	100 A	2800 W

Ordering model = voltage pair + current rating, i.e. **12V-28V 100A**. 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.

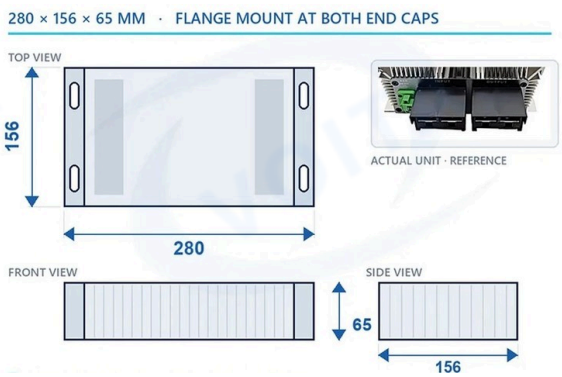
ELECTRICAL SPECIFICATION

Input voltage	DC 12 V (9–16 V)
Output voltage	28 V, held to ± 0.25 V
Output current	100 A
Output power	2800 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)	280 × 156 × 65
Net weight	2.8–3.0 kg
Housing	Sealed extruded aluminium body with integrated finned heat sink
Terminals	Shrouded INPUT and OUTPUT connectors; separate 2-pin ACC connector
Mounting	Slotted holes on both end caps — flange mount
Ingress protection	IP67 — sealed housing, no vents or fan intake
Certification	CE, FCC, RoHS
Warranty	2 years standard, extendable by agreement



Top, front and side views — 280 × 156 × 65 mm, slotted mounting holes on both end caps.

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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