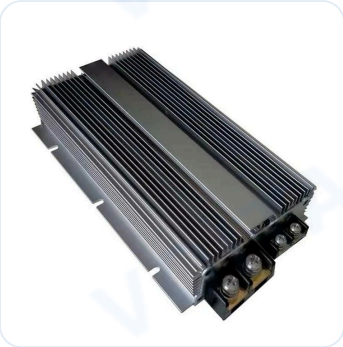
Step-down DC-DC Converter — 220 × 130 × 50 mm Case, 18–90 V to 12–24 V

Step-down (buck) converter for 18–90 V DC systems, supplying 12–24 V at 60 A to 100 A in one sealed aluminium case.



KEY FEATURES

- Input versions — **24 V (18–32 V), 48 V (30–60 V), 60 V / 72 V (30–90 V)**
- Outputs at **12 V / 13.8 V / 24 V**, held to ± 0.25 V
- **60 A to 100 A** in this case — 720 W to 1920 W
- **220 × 130 × 50 mm** finned heat-sink case, **2.2–2.3 kg**
- **93 % transfer efficiency** at rated load
- **IP67** — dust-tight, immersion to 1 m for 30 min
- Short-circuit, over-current, over-voltage and over-temperature protection
- Certified to **CE, FCC and RoHS**

MODELS BUILT IN THIS CASE

Model	Input version	Output current	Output power
24V-12V	24 V (18–32 V)	100 A	1200 W
48V-12V	48 V (30–60 V)	80 A / 100 A	960 W / 1200 W
48V-24V	48 V (30–60 V)	80 A	1920 W
48V-13.8V	48 V (30–60 V)	80 A	1104 W
60/72V-12V	60 V / 72 V (30–90 V)	60 A / 80 A / 85 A	720 W / 960 W / 1020 W
60/72V-13.8V	60 V / 72 V (30–90 V)	70 A / 80 A	966 W / 1104 W
72V-24V	60 V / 72 V (30–90 V)	60 A	1440 W

Ordering model = model prefix + current rating, i.e. **24V-12V 100A**. Output power is the rated output voltage multiplied by the output current. All models use the same 220 × 130 × 50 mm case.

ELECTRICAL SPECIFICATION

Input voltage	DC 24 V (18–32 V) or DC 48 V (30–60 V) or DC 60 V / 72 V (30–90 V)
Output voltage	12 V / 13.8 V / 24 V, held to ± 0.25 V
Output current	60 A to 100 A in this case
Output power	720 W to 1920 W in this case
Transfer efficiency	93 % typical at rated load
Protection	Short-circuit, over-current, over-voltage, over-temperature

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)	220 × 130 × 50
Net weight	2.2–2.3 kg
Ingress protection	IP67 — sealed housing, no vents or fan intake
Working temperature	-40 °C to +80 °C
Storage temperature	-40 °C to +100 °C
Working humidity	10 % to 90 % RH
Certification	CE, FCC, RoHS
Warranty	2 years standard, extendable by agreement

End face: INPUT and OUTPUT stud pairs.

Custom requirements. If the model you need is not listed, send input range, output voltage, output current, case or terminal preference and quantity — we will quote a customized build.

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