Step-down DC-DC Converter — 190 × 84 × 30 mm Case, 9–32 V to 5 V

Step-down (buck) converter for 9–32 V DC systems, supplying 5 V at 50 A in one sealed aluminium case.

KEY FEATURES

- Input versions — **12 V / 24 V (9–32 V)**
- Outputs at **5 V**, held to ± 0.25 V
- **50 A** in this case — 250 W
- **190 × 84 × 30 mm** finned heat-sink case, **0.5–0.6 kg**; housing machined to order
- **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
12V/24V-5V	12 V / 24 V (9–32 V)	50 A	250 W

Ordering model = model prefix + current rating, i.e. **12V/24V-5V 50A**. Output power is the rated output voltage multiplied by the output current. All models use the same 190 × 84 × 30 mm case.

ELECTRICAL SPECIFICATION

Input voltage	DC 12 V / 24 V (9–32 V)
Output voltage	5 V, held to ± 0.25 V
Output current	50 A in this case
Output power	250 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)	190 × 84 × 30
Net weight	0.5–0.6 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

Custom housing — outline issued after order review.

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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