

# Voltage converter 18–36V to 5V DC, 20A, 100W, isolated

## Product codes:

Reference: AM0503

EAN13: -

UPC: 85044090



## Product features:

Input voltage: 18-36 V DC

Output voltage: 5 V DC

Output current: 20 A

Output power: 100 W

Waterproof grade: IP67

Lifetime: 100,000 hours

## Product attributes:

## Product description:

Highly efficient isolated DC/DC converter designed to convert input voltage 18–36V DC to stable 5V DC with maximum output current 20A. Robust aluminum body, epoxy potting and passive cooling ensure reliable operation even in harsh industrial conditions. This module is ideal for telecommunications systems, industrial applications, transportation technology and battery-powered systems.

## Technical specifications

- Input rated voltage: 24V DC
  - Input range: 18–36V DC
  - Output voltage: 5V DC
  - Maximum output current: 20A
  - Maximum output power: 100W
  - Efficiency: 90% (at 24V input)
  - Electrical isolation: galvanically isolated input and output
  - Voltage regulation: 1%
  - Load regulation: 2%
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- Ripple and noise: 22-150 mVp-p
- No-load consumption: 6 mA (at 24Vin)
- Protections: overvoltage, overcurrent, low input voltage, overheating
- Cooling: passive, free air circulation
- Operating temperature: -40°C to +80°C
- Operating humidity: 10% to 90% RH
- Storage temperature: -40°C to +85°C
- Weight: ≤ 290g
- Dimensions: 74 × 74 × 29.5 mm
- Input connection: screw terminals
- Output connection: screw terminals
- Construction: aluminum housing, surface mount, epoxy potting
- Certification: CE, RoHS

### **Functions and features**

- Galvanically isolated input and output for maximum system safety and stability.
- High output current 20A suitable for powering power electronics.
- Extremely robust design with high-quality heat dissipation.
- Resistant to vibration, moisture and dust thanks to epoxy potting.
- Stable and clean output voltage suitable even for sensitive circuits.
- Compact dimensions allow installation almost anywhere.

### **Ideal for**

- Telecommunications equipment and industrial control systems
- Transport technology, vehicles and systems with 24V batteries
- Power supply for microprocessors, control units and automation
- IoT devices and special power applications
- LED lighting and electronic modules requiring a stable 5V power supply

### **Package contents**

- 1× DC/DC converter 18-36V → 5V, 20A, isolated

### **Why choose this product?**

- High efficiency of 90% and stable parameters even at full load.
  - The isolated design protects sensitive circuits from interference and faults.
  - Wide input range suitable for battery systems and industrial installations.
  - Durable and compact design with long service life.
  - Safe operation thanks to integrated protections.
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## Product gallery:

