

Voltage converter 36–75V to 5V DC, 20A, 100W, isolated

Product codes:

Reference: AM9897

EAN13: -

UPC: 85044090



Product features:

Input voltage: 36-72 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:

Powerful isolated DC/DC converter designed to convert input voltage 36–75V DC to stable 5V DC with high current up to 20A. Thanks to its robust aluminum construction, epoxy potting and passive cooling, it is suitable for demanding industrial, telecommunications and mobile applications.

Technical specifications

- Input rated voltage: 48V DC
 - Input range: 36–75V DC
 - Output voltage: 5V DC
 - Maximum output current: 20A
 - Maximum power: 100W
 - Efficiency: up to 90% (at 48V input)
 - Electrical isolation: galvanically isolated input and output
 - Voltage regulation: 1%
 - Load regulation: 2%
 - Ripple and noise: 22–150mVp-p
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- No load: 5mA at 48Vin
- Protections: overvoltage, overcurrent, undervoltage, overheating
- Cooling: passive, free airflow
- 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 design for safe operation and device protection.
- High current 20A suitable for powering power circuits.
- Robust aluminum heat sink with protection against moisture and dust.
- Stable 5V output voltage with low ripple.
- Compatible with 48V battery systems and industrial power grids.
- Suitable for mounting in almost any position due to its compact dimensions.

Ideal for

- Telecommunications equipment and industrial applications
- Electric vehicles and battery systems
- Power supply for control units, microcontrollers and sensors
- Automation, IoT and voltage converters
- LED systems requiring a stable 5V voltage

Package contents

- 1× DC/DC converter 36–75V → 5V, 20A, isolated

Why choose this product?

- High efficiency up to 90% and stable output parameters.
- Fully isolated design protects connected circuits from faults.
- Compact dimensions and low weight.
- Wide input range 36–75V DC for universal use.
- Durable construction with long service life.

Product gallery:

