

Voltage converter 36–75V to 12V DC, 10A, 120W, isolated

Reference: AM7175
EAN13: -
HS code: 85044090



Product attributes:

Product features:

Input voltage: 36-72 V DC
Output voltage: 12 V DC
Output current: 10 A
Output power: 120 W
Waterproof grade: IP67
Lifetime: 100,000 hours

Product description:

Highly reliable isolated DC/DC converter designed for converting 36–75V DC to stable 12V DC with output current up to 10A. Thanks to its robust aluminum construction, epoxy potting and high efficiency, it provides safe and permanently stable operation even in demanding industrial, transportation and telecommunications applications.

Technical specifications

- Input rated voltage: 48V DC
- Input range: 36–75V DC
- Output voltage: 12V DC
- Maximum output current: 10A
- Maximum output power: 120W
- Efficiency: up to 93% at 48V input
- Electrical isolation: galvanically isolated input and output
- Voltage regulation: 1%
- Load regulation: 2%
- Ripple and noise: 22–250 mVp-p
- No-load consumption: 10 mA 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: 570g
- Dimensions: 74 × 74 × 29.5 mm
- Input connection: screw terminals
- Output connection: screw terminals
- Construction: aluminum housing, epoxy potting, surface mount
- Certification: CE, RoHS

Functions and features

- Fully isolated input and output to protect equipment and eliminate interference.
- High efficiency up to 93% and very low heat loss.
- Stable output voltage of 12V even with significantly fluctuating input voltage.
- Robust aluminum construction with excellent heat dissipation.
- Epoxy encapsulation increases resistance to vibration, moisture and dust.
- Suitable for continuous operation in demanding industrial environments.

Ideal for

- Telecommunications equipment and power infrastructure
- Industrial control systems and automation
- Transportation and mobility technologies with 48V power supply
- Electronic control units and power modules
- Applications requiring stable and isolated 12V voltage

Package contents

- 1× DC/DC converter 36-75V → 12V, 10A, isolated

Why choose this product?

- Wide input range 36-75V for professional and industrial use.
- Galvanic isolation of input and output for maximum safety.
- High efficiency, long life and minimal maintenance.
- Durable aluminum body with high-quality heat sink.
- Stable operation even in extreme temperature conditions.

