

Voltage converter 36–90V to 12V DC, 10A, 120W, isolated

Reference: AM0430
EAN13: -
HS code: 85044090



Product attributes:

Product features:

Input voltage: 36-90 V DC
Output voltage: 12 V DC
Output current: 10 A
Output power: 120 W
Waterproof grade: IP67
Lifetime: 100,000 hours

Product description:

A highly efficient isolated DC/DC converter designed to convert a wide range of input voltages from 36–90V DC to a stable 12V DC. This power supply module offers high reliability, galvanic isolation of input and output, and a robust epoxy-encased construction, making it suitable for use even in extreme industrial conditions.

Technical specifications

- Input rated voltage: 72V DC
- Input range: 36-90V 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 (full load)
- No-load consumption: 10 mA at 48Vin
- 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 +100°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

- Galvanic isolation of input and output for safe operation and protection of connected devices.
- The wide input range of 36–90V allows use in 48V, 60V and 72V systems.
- High efficiency of up to 93% minimizes losses and heating.
- Robust, encapsulated design resistant to vibration, moisture and dust.
- Compact design suitable for limited installation spaces.
- Stable 12V output with low ripple, suitable for both power and sensitive electronics.

Ideal for

- Industrial control systems
- Telecommunications and network equipment
- Transport equipment and vehicles with 48–72V battery systems
- Power supply for control units, sensors and power modules
- Special DC power applications requiring isolated 12V

Package contents

- 1× DC/DC converter 36-90V → 12V, 10A, isolated

Why choose this product?

- Extremely wide input range 36-90V for professional use.
- The galvanically isolated design protects the entire power supply system.
- High efficiency, long life and minimal maintenance.
- Durable aluminum construction with passive cooling.
- Stable 120W power even in demanding operating conditions.

