

RP50-AW Series DC/DC Converters



The new RP50-AW series is a compact 50W isolated converter family designed for demanding industrial, transportation, automation, test & measurement, and datacom applications. Featuring a 4:1 wide input voltage range, 2.25kVDC isolation, and efficiency of up to 93%, the series offers maximum flexibility while minimizing power losses. Designed for harsh operating environments, the RP50-AW operates reliably from -40°C to +110°C and at altitudes of up to 5000m.

An optional integrated heat sink further enhances thermal performance, allowing designers to maximize output power under challenging cooling conditions. The converters integrate comprehensive protection features, including continuous short-circuit protection, over-voltage protection (OVP), over-load protection (OLP), and over-temperature protection (OTP), ensuring high system reliability and long service life. Remote ON/OFF control with either positive or negative logic and output voltage trimming provide additional flexibility for system integration.



Unique Selling Proposition:

- 4:1 (9-36 and 18-75) wide input voltage range
- Continuous short circuit protection
- No minimum load
- 2.25kVDC/1min isolation
- High power density
- Industry standard 1"x1" package
- 3-year warranty

Target Customer:

- Transportation
- Industrial & automation
- Test & Measurement
- Datacom & Telecom

Target Application Examples:

- Industrial automation
- Battery management systems
- EV charging infrastructure

Main Features:

- Derates to 110°C
- ON/OFF pin
- 1"x1" package
- No minimum load

Datasheets and additional information can be found on: <https://recom-power.com>