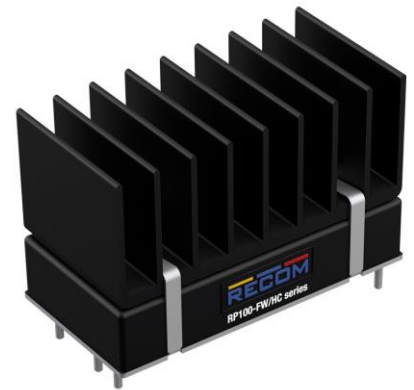


RP100-FW Series DC/DC Converters



The RP100-FW series is a new family of high-performance 100W isolated DC/DC converters designed for demanding industrial, transportation, test & measurement, and communications applications. Featuring a 4:1 wide input range, the series simplifies system design by covering nominal 24V and 48V battery systems with only two input voltage variants while supporting seven popular output voltages from 5V to 54V. With efficiencies of up to 94%, the RP100-FW minimizes power losses and heat generation, enabling reliable operation over an extended ambient temperature range from -40°C to +110°C.

For applications requiring additional thermal headroom, versions with an integrated heat sink are available, making the converters suitable for operation in harsh environments and at altitudes of up to 5000m. The converters provide 2.25kVDC isolation and incorporate a comprehensive protection package including undervoltage lockout, overload protection, overvoltage protection, overtemperature protection, and continuous short-circuit protection, ensuring high system reliability and long service life. Output voltage trimming of $\pm 10\%$ and remote ON/OFF control with positive or negative logic provide additional flexibility for system designers.



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 2"x1" package
- 3-year warranty

Target Customer:

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

Target Application Examples:

- Industrial automation
- Battery power applications
- Industrial Networking Equipment

Main Features:

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

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