



APS 3000 Series

Bi-Directional DC-DC Converter



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FEATURES & BENEFITS

- Automotive 12/48V battery system
- Low side (12V) input range: 6-18V
- High side (48V) input range: 24-58V
- Overcurrent, overvoltage & overtemperature protection. All protections are latching.
- Disconnection switch on low and high sides
- Reverse polarity protection on low side
- Constant voltage and constant current mode
- Average current mode control
- Custom charging profile for battery pack
- Current monitoring
- Internal temperature monitoring
- High power density
- Low profile
- Efficiency up to 97%
- Constant switching frequency
- CAN 2.0b interface including remote on/off
- Designed to meet MIL-STD-810G for functional shock and vibration
- RoHS compliant
- Liquid-cooled variant has IP67-rated enclosure



Available in air- and liquid-cooled variants.
Air-cooled is shown.

APPLICATIONS

Ideal in-vehicle power distribution with 12/48V battery configurations for a variety of applications, including trucks, vans and micro/mild hybrid automotive systems.

GENERAL AND MECHANICAL SPECIFICATIONS

Variant	Air-Cooled	Liquid-Cooled
Weight	1.33 kg	2 kg
Dimensions (LxWxH)	240x136.4x18.5mm (sans terminals) 240x136.4x29.97mm (with terminals)	200x196x46mm
Environmental		
Operating humidity	95%	95%
Storage humidity	95%	95%
Material	Brass	Brass
Surface	Tin	Tin
Tightening torque	8.85in/lbs	8.85in/lbs
Coolant temperature range	N/A	-40 to +65 degrees C
Rated current	250 A	250 A
External thread	M8	M8

Electronic specifications and characteristic curves available upon request.