

CONVERTERS

MODEL Bi-directional | PART #APS-12BI58-3000

12VDC to 48VDC | 3000 watts



FEATURES & BENEFITS

- Automatic 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 complaint
- Liquid-cooled variant has IP67-rated enclosure

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 terminal) 240x136.4x29.97mm (with terminals)	200x196x46mm
Operating/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°C
Rated Current	250 A	250 A
External Thread	M8	M8

Electronic specifications and characteristic curves available upon request.



426 West Second Street | Davenport, Iowa 52801
+1 (563) 323-7994 | sales@americanpowerinc.com
www.americanpowerinc.com