

CONVERTERS

MODEL Bi-directional | PART #APS-12BI28-3000-F03

12VDC to 24VDC | 3000 watts



FEATURES & BENEFITS

- Automotive 12V/24V battery system
- Buck and boost modes of operation
- Low side (12V) input range: 6-16V
- High side (24V) input range: 12-35V
- Overcurrent, overvoltage, & over-temperature protection. All protections are latching.
- Disconnection switch on low & high sides
- Reverse polarity protection
- Constant voltage & constant current mode
- Average current mode control
- Custom charging profile for the battery pack
- Current monitoring
- Internal temperature monitoring
- High power density
- Efficiency up to 96.5%
- Excellent thermal performance
- Constant switching frequency
- CAN 2.0b interface including remote on/off
- Good shock & vibration damping
- Highly integrated solution
- RoHS compliant

APPLICATIONS

Ideal in-vehicle power distribution with 12/24V battery configurations for a variety of applications, including trucks, vans and micro/mild hybrid automotive systems.



GENERAL AND MECHANICAL SPECIFICATIONS

VARIANT	AIR-COOLED*
Weight	3.35 kg
Dimensions (LxWxH)	263.33x249.12x52.12mm (with terminals)
Operating/Storage Humidity	95%
Material	Cu 1100
Surface	Tin
Tightening Torque	15 Nm
Coolant Temperature Range	N/A
Rated Current	250 A
External Thread	M8 x 1.25mm
CAN Baud Rate	250K

*Electronic specifications and characteristic curves available upon request.
Without forced air cooling, will most likely be a de-rate of full output power.

