

Advanced power management

Power supply and motor drive (PSMD) for oven



The PSMD contains all the power generating system components to control the heaters and fans for cabin oven equipment.

It includes the following functions:

- > Compatible with wild frequency network
- > Internal fault diagnostic (BITE) - improve reliability and avoid inflight failure
- > 3 phases- 3200 Volts amps- power supply for heaters
- > 250W power supply for sensorless motor
- > Active power factor corrector rectifier- with the last norms (including harmonics), last A/C
- > Protection against over current, over voltage, under voltage and over temperature
- > CAN bus communication

Key features

- 3 phases 115 Volts alternating current (VAC) -variable frequency-power input
- Active power factor corrector
- Sensorless motor drive

Applications

- Airbus civil aircraft
- Boeing civil aircraft

Contact

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Specifications

Electrical

Input voltage	3 phases 115 Volts alternating current (VAC) variable frequency
Outputs:	3200 VAC/3 phases - to the heater 250 W/3phases to brushless direct current electric motor (BLDC) 25.5 VDC/50W- insulated auxiliary power supply

Physical

Width	350 mm
Height	140 mm
Depth	61 mm
Weight	1 660 g

Environmental

Ambient temperature	-15°C to +65°C (normal operating conditions) During 1 hour operating conditions
DO254 level D	
RTCA/D0160F	
ABD100.1.8	
787B3-0147 RevC	

Note: Due to continuous process improvement, specifications are subject to change without notice

Functional diagram

