

TDK-Lambda	Mil-COTS Qualification Testing MIL-STD-810G for FQB020ADC-007-M	
MIL-STD Test (810G)	Method	Description of Tests
Altitude	500.5 - Procedure I	Storage: 70,000 ft. for 2 hours
	500.5 - Procedure II	Operating: 70,000 ft. for 2 hours at ambient temperature
Fungus	508.6	Tested at 30 °C for 28 days
Immersion	512.5 - Procedure I	Submerged 1 meter in water for 30 minutes / dried and tested
Humidity	507.5 - Procedure II	Vary temperature while keeping humidity at 95 % for 10 cycles
Rapid Decompression	500.5 - Procedure III	8,000 ft. to 40,000 ft.
Temperature Shock	503.5 - Procedure I-C	12 cycles between -65 to 135 °C.
Blowing Rain	506.5 - Procedure I	Wind speed at 18 m/s for 30 minutes on both sides of unit
Salt Fog	509.5	Soak in salt fog chamber for 24 hours, dry 24 hours and repeat cycle
Blowing Dust	510.5 - Procedure I	Settlement rate of 10.6 g/m cubed and air velocity of 8.9m/s for 12 hours
Blowing Sand	510.5 - Procedure II	Settlement rate of 2.2 g/m cubed and air velocity of 18 m/s, exposure
		of 90 minutes to both sides of unit
High Temperature	501.6 - Procedure I	Storage: 125 °C. for 3 hours
	501.6 - Procedure II	Operating: 100 °C.
Low Temperature	502.6 - Procedure I	Storage: -65 °C. for 4 hours
	502.6 - Procedure II	Operating: -55 °C. for 3 hours
Random Vibration	514.6 - Procedure I	10-2000 Hz, Power Spectral Density(PSD) level of 1.5 G2/HZ (54.6 Grms)
		screw bolted, duration = 1 hr./axis, three axes.
Shock Operating	516.6 - Procedure I	40 G peak and 11 ms for ground equipment (saw tooth), three axes.
Temperature Cycle test (TCT)	MIL-STD-883K, 1010.9	Temperature cycling Test Condition B. (-55 to 125 °C.)
Passed: Greg Childers	Qualification Representative	Completion Date: 02/28/2019
<i>Greg Childers</i>		