For Reference

COSEL

PDA75F Safety test results

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New Product Development Dept.1

Approved : Yoshiaki Shimizu

Prepared : Shinji Moriya

No.	Test item	Conditions	Conditions of acceptability	Result
1	High temp./Overload test	(1) Input: 85 VAC (2) Output: Overload (3) Ambient temp.: 50 ℃ (4) Test period: 48 hours	(1) The power supply does not fail.	Pass
2	No ventilation test	(1) Input: 100/230 VAC (2) Output: Rated current (3) Ambient temp.: 25 ± 10 ℃ (4) Test period: 48 hours	(1) No smoke or fire.	Pass
3	Capacitance reduction test	(1) Input: 100 VAC (2) Output: Rated current (3) Ambient temp.: 25 ± 10 ℃	(1) No smoke or fire. (2) No increase in output voltage occurs.	Pass
4	Low voltage input test	(1) Input: Min. regulation voltage (61 VAC) (2) Output: Rated current (3) Ambient temp.: 25 ± 10 ℃ (4) Test period: 48 hours	(1) The power supply does not fail.	Pass
5	Input ON/OFF test	(1) Input: 264 VAC T = 2 s, Duty = 50% (2) Output: Rated current (3) Ambient temp.: 70 ℃ (4) Number of ON/OFF cycles: 1,000 cycles	(1) The power supply does not fail. (2) The surge current into each component does not exceed the rated value.	Pass
6	Output ON/OFF test	(1) Input: 100 VAC (2) Output: 0% ⇔ 100% T = 2 s, Duty = 50% (3) Ambient temp.: 25 ± 10 ℃ (4) Number of ON/OFF cycles: 1,000 cycles	(1) The power supply does not fail.	Pass
7	Output short-circuit startup test	(1) Input: 100/230 VAC (2) Output: Short-circuit (3) Ambient temp.: 25 ± 10 ℃	(1) The power supply does not fail.	Pass
8	Output short-circuit test	(1) Input: 85 VAC (2) Output: Short-circuit (3) Ambient temp.: 25 ± 10 ℃ (4) Test period: 48 hours	(1) The power supply does not fail.	Pass
9	Withstand voltage test (Hi-Pot test)	(1) Input: No input (2) Ambient temp.: 25 ± 10 ℃ (3) Test voltage: specifications	(1) No insulation breakdown, flashover, or electric arcing occurs.	Pass
10	Insulation resistance test	(1) Input: No input (2) Ambient temp.: 25 ± 10 ℃	(1) Satisfies the specifications.	Pass
11	Vibration/Impact test	Vibration (1) f = 10-150 Hz, 19.6 m/s^2 (2) 3-minute period (3) 60 minutes along the X, Y, and Z axes Impact (1) 196.1 m/s^2, 11 ms (2) Once along each of the X, Y, and Z axes	(1) No degradation of electric characteristics after test. (2) No cracks occur at the solder joints. (3) No significant visible damage occurs.	Pass
12	Line noise tolerance test	(1) Input: 100 VAC (2) Output: Rated current (3) Ambient temp.: 25 ± 10 ℃ (4) Test Voltage: ±2 kV (5) Pulse width: 50～1000 ns (6) Mode: Normal and Common	(1) No protection circuit failure. (2) No output voltage drop with control circuit failure. (3) No functional failure occurs.	Pass