



GMA300F Safety test result

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US Design Dept.

Approved :

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No.	Test item	Test Conditions	Conditions of acceptability	Result
1	High temp./overload test	(1) Rated input (AC115V,230V) (2) Overload (3) Ambient temp. 50°C	(1) Power supply is not failed.	OK
2	No ventilation test	(1) Rated input (AC115V,230V) (2) Rated output (3) Ambient temp. 25±10°C	(1) No smoke, no fire.	OK
3	Capacitance reduction test	(1) Rated input (AC230V) (2) Rated output (3) Ambient temp. 25±10°C	(1) No smoke, no fire. (2) No rise of the output voltage.	OK
4	Low voltage input test	(1) Input Min. regulation voltage (AC80V) (2) Rated output (3) Ambient temp. 25±10°C (4) Test period 48 hours	(1) Power supply is not failed.	OK
5	Input On/Off test	(1) Input : Max. voltage (AC264V) T = 2sec Duty = 50% (2) Rated output (3) Ambient temp. 70°C (4) On/Off period 1,000 times	(1) Power supply is not failed. (2) The surge current of each components should not exceed the rated value.	OK
6	Output On/Off test	(1) Rated input (AC230V) (2) Output 0%←→100% T = 2sec Duty = 50% (3) Ambient temp. 25±10°C (4) On/Off period 1,000 times	(1) Power supply is not failed.	OK
7	Output-short start test	(1) Rated input (AC115V) (2) Output : Short start (3) Ambient temp. 25±10°C	(1) Power supply is not failed.	OK
8	Output short test	(1) Rated input (AC115V) (2) Output : Short (3) Ambient temp. 25±10°C (4) Test period 48 hours	(1) Power supply is not failed.	OK
9	Withstand voltage test (High-pot test)	(1) Input : Not applied (2) Ambient temp. 25±10°C (3) The applied voltage is 1.4 times of specifications.	(1) Insulation breakdown, flashover or electric arc is not occurred.	OK
10	Isolation resistance test	(1) Input : Not applied (2) Ambient temp. 25±10°C	(1) When a regulation voltage is applied, isolation resistance is 1.4 times of specifications.	OK
11	Vibration/impact test	Vibration: (1) f=10~150Hz : 29.4m/s ² (2) 3 minutes period (3) 60 minutes each X, Y and Z axis Impact: (1) 294.2m/s ² 11ms (2) Once each X, Y and Z axis	(1) No degradation of electric characteristics after test. (2) No crack at solder joint. (3) No marked damage of appearance.	OK
12	Line Noise Tolerance test	(1) Rated input (AC230V) (2) Rated Output (3) Ambient temp 25±10°C (4) Test Voltage ±3 kV (5) Pulse width 50~1000ns (6) Mode : Normal and Common	(1) No protection circuit failure. (2) No output voltage drop with control circuit failure. (3) No any other function failure.	OK