

Approved : Yoshiaki Shimizu  
Yoshiaki Shimizu

Prepared : Yuhei Sugimori  
Yuhei Sugimori

No.	Test item	Test Conditions	Conditions of acceptability	Result
1	High temp./overload test	(1) Rated input AC230V (2) Overload (3) Ambient temp. 70°C (4) Test period 48 hours	(1)Power supply is not failed.	OK
2	No ventilation test	(1) Rated input AC115V (2) Rated output (3) Ambient temp. 25±10°C (4) Test period 48 hours	(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 AC60V (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 : 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 AC230V (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 <sup>2</sup> (2)3 minutes period (3)60 minutes each X, Y and Z axis  Impact: (1)294.2m/s <sup>2</sup> 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) 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