



MGS6 series Safety test results

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OS DESIGN DEPT.

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No.	Test item	Conditions	Conditions of acceptability	Result
1	High temp./overload test	(1) Input : Max.voltage, Min.voltage (2) Output : Overload (3) Ambient temp. : 80°C (4) Test period : 48 hours	(1)Power supply is not failed.	OK
2	High voltage input test	(1) Input : 2 times of rated voltage (2) Output : Rated output (3) Ambient temp. : 25±10°C	(1)No smoke, no fire.	OK
3	Low voltage input test	(1) Input : Min. regulation voltage (2) Output : Rated output (3) Ambient temp. : 25±10°C (4) Test period : 48 hours	(1)Power supply is not failed.	OK
4	Input ON/OFF test	(1) Input : Max.voltage T= 2sec Duty= 50% (2) Output : Rated output (3) Ambient temp. : 25±10°C (4) ON/OFF period : 1,000	(1)Power supply is not failed. (2)The surge current of each components should not exceed the rated value.	OK
5	Output ON/OFF test	(1) Input : Rated input (2) Output : 0%↔100% T= 2sec Duty= 50% (3) Ambient temp. : 25±10°C (4) ON/OFF period : 1,000	(1)Power supply is not failed.	OK
6	Output-short start test	(1) Input : Rated input (2) Output : Short start (3) Ambient temp. : 25±10°C	(1)Power supply is not failed.	OK
7	Output short test	(1) Input : Rated input (2) Output : Short (3) Ambient temp. : 25±10°C (4) Test period : 48 hours	(1)Power supply is not failed.	OK
8	Withstand voltage test (High-pot test)	(1) Input : N/A (2) Ambient temp. : 25±10°C (3)Test voltage : 1.4 times of specifications.	(1)Insulation breakdown , flashover or electric arc is not occurred	OK
9	Isolation resistance test	(1) Input : N/A (2) Ambient temp. : 25±10°C	(1)When a regulation voltage is applied, isolation resistance is 1.4 times of specifications.	OK
10	Vibration/impact test	Vibration (1)f=10~55Hz : 98.0m/s ² (2)3 minutes period (3)60 minutes along X, Y and Z axis Impact (1)490.3m/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