



MHFS6 series Safety test results

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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) Case top temp. : 105°C (4) Test period : 48 hours	(1)Power supply is not failed.	Pass
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.	Pass
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.	Pass
4	Input ON/OFF test	(1) Input : Rated input T= 2sec Duty= 50% (2) Output : Rated output (3) Ambient temp. : 25±10°C (4) ON/OFF period : 10,000	(1)Power supply is not failed. (2)The surge current of each components should not exceed the rated value.	Pass
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.	Pass
6	Output-short start test	(1) Input : Max.voltage, Min.voltage (2) Output : Short start (3) Ambient temp. : 25±10°C	(1)Power supply is not failed.	Pass
7	Output short test	(1) Input : Max.voltage, Min.voltage (2) Output : Short (3) Ambient temp. : 25±10°C (4) Test period : 48 hours	(1)Power supply is not failed.	Pass
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	Pass
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.	Pass
10	Vibration/impact test	Vibration (1)f=10~150Hz : 147.0m/s <sup>2</sup> (2)3 minutes period (3)60 minutes along X, Y and Z axis  Impact (1)735.0m/s <sup>2</sup> 12ms (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.	Pass