



# **CQHS300 Safety test results**

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AS DESIGN DEPT.

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No.	Test item	Test conditions	Conditions of acceptability	Result
1	High temp./overload test	(1) Input Max.voltage, Min.voltage (2) Overload (3) Baseplate temp. 85°C (4) Test period 48 hours (5) Testing circuitry Fig.1	(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) Rated output (3) Baseplate temp. 85°C (4) Test period 48 hours (5) Testing circuitry Fig.1	(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 (5) Test circuit : Fig.1	(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) Rated input (DC48V) (2) Output 0%←→100% T= 2sec Duty= 50% (3) Ambient temp. 25±10°C (4) On/off period 1,000 (5) Testing circuitry Fig.1	(1) Power supply is not failed.	ok
6	Output-short start test	(1) Rated input (DC48V) (2) Output Short start (3) Ambient temp. 25±10°C (4) Testing circuitry Fig.1	(1) Power supply is not failed.	ok
7	Output short test	(1) Rated input (DC48V) (2) Output Short (3) Ambient temp. 25±10°C (4) Test period 48 hours (5) Testing circuitry Fig.1	(1) Power supply is not failed.	ok
8	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
9	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
10	Vibration/impact test	Vibration (1)f=10~55Hz : 49.0m/s <sup>2</sup> (2)3 minutes period (3)60 minutes along X, Y and Z axis Impact (1)196.1m/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