

Approved: Koji Todo
Koji TodoPrepared: Takayuki Yamamoto
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| No. | Test item | Test conditions | Conditions of acceptability | Result |
|-----|---|--|--|--------|
| 1 | High temp./Overload test | (1) Input AC315V (3 ϕ 4-Wire) (2) Overload (3) Ambient temp. 40°C (4) Test period 48 hours | (1) Power supply is not failed. | ok |
| 2 | Capacitance reduction test | (1) Input AC346V (3 ϕ 4-Wire) (2) Rated output (3) Ambient temp. 25 \pm 10°C | (1) No smoke, no fire. (2) No rise of the output voltage. | ok |
| 3 | Low voltage input test | (1) Input : Min. regulation voltage AC283V (3 ϕ 4-Wire) (2) Rated output (3) Ambient temp. 25 \pm 10°C (4) Test period 48 hours | (1) Power supply is not failed. | ok |
| 4 | Input On/Off test | (1) Input AC457V (3 ϕ 4-Wire) T= 7sec, Duty= 30% (2) Rated output (3) Ambient temp. 40°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 |
| 5 | Output On/Off test | (1) Input AC346V (3 ϕ 4-Wire) (2) Output 0% \longleftrightarrow 100% T= 2sec, Duty= 50% (3) Ambient temp. 25 \pm 10°C (4) On/Off period 1,000 times | (1) Power supply is not failed. | ok |
| 6 | Output-short start test | (1) Input AC400V (3 ϕ 4-Wire) (2) Output : Short start (3) Ambient temp. 25 \pm 10°C | (1) Power supply is not failed. | ok |
| 7 | Output short test | (1) Input AC400V (3 ϕ 4-Wire) (2) Output : Short (3) Ambient temp. 25 \pm 10°C (4) Test period 48 hours | (1) Power supply is not failed. | ok |
| 8 | Withstand voltage test (High-pot test) | (1) Input : Not applied. (2) Ambient temp. 25 \pm 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 \pm 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=10~150Hz, 23.5m/s ² (2) 3 minutes period (3) 60 minutes each X, Y and Z axis Impact : (1) 235.2m/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 |
| 11 | Line noise tolerance test | (1) Input AC400V (3 ϕ 4-Wire) (2) Rated Output (3) Ambient temp. 25 \pm 10°C (4) Test Voltage \pm 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 |