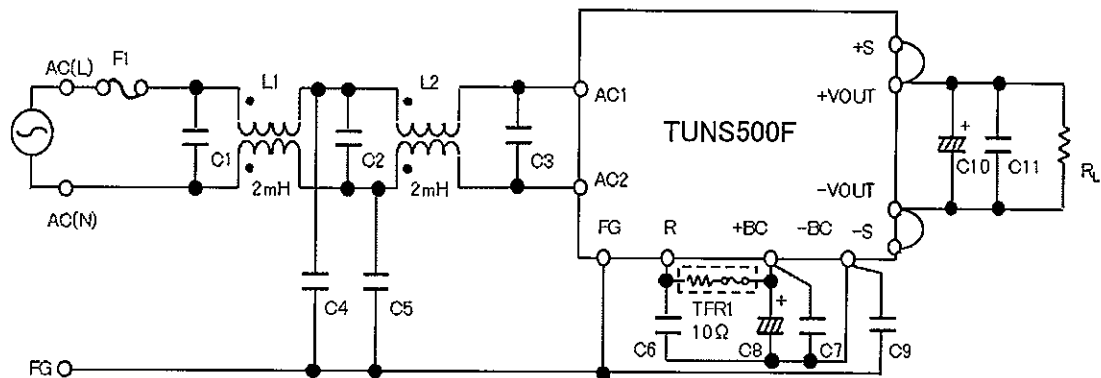


Approved: Takayuki Fukuda  
Takayuki Fukuda

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No.	Test item	Test conditions	Conditions of acceptability	Result
1	High temp./overload test	(1) Input Rated input (AC100V,200V) (2) Output Overload (3) Baseplate temp. 75°C (Output voltage 12) 85°C (Output voltage 28,48) (4) Test period 48 hours (5) Testing circuitry Fig.1	(1) Power supply is not failed.	OK
2	Capacitance reduction test	(1) Input Rated input (AC100V) (2) Output Rated output (3) Ambient temp. 25±10°C (4) Testing circuitry Fig.1	(1) No smoke, no fire. (2) No rise of the output voltage.	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 (5) Testing circuitry Fig.1	(1) Power supply is not failed.	OK
4	Input ON/OFF test	(1) Input Rated input (AC200V) T= 2sec Duty= 50% (2) Output Rated output (3) Ambient temp. 25±10°C (4) On/off period 1,000 (5) Testing circuitry 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) Input Rated input (AC100V) (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) Input Max. voltage (AC264V) (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) Input Rated input (AC100V,200V) (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
11	Line Noise Tolerance test	(1) Input AC230V (2) Output Rated output (3) Ambient temp. 25±10°C (4) Test Voltage ±2 kV (5) Pulse width 50~1000ns (6) Mode Normal and Common (7) Testing circuitry Fig.1	(1) No protection circuit failure. (2) No output voltage drop with control circuit failure. (3) No any other function failure.	OK

## ○ Testing circuitry



- |          |  |     |   |
|----------|--|-----|---|
| L1,L2    | : SC-15-200(NEC TOKIN)                               | C11 | : TUNS500F12 10 $\mu$ F Ceramic Capacitor |
| C1,C2    | : 0.68 $\mu$ F 310V Film Capacitor $\times$ 2        |     | TUNS500F28 4.7 $\mu$ F Ceramic Capacitor  |
| C3       | : 1.0 $\mu$ F 310V Film Capacitor $\times$ 2         |     | TUNS500F48 2.2 $\mu$ F Ceramic Capacitor  |
| C4,C5,C9 | : 2200pF Ceramic Capacitor                           |     |   |
| C6,C7    | : 0.68 $\mu$ F 450V Film Capacitor $\times$ 2        |     |   |
| C8       | : 390 $\mu$ F 450V Electrolytic Capacitor $\times$ 2 |     |   |
| C10      | : TUNS500F12 2200 $\mu$ F 25V Electrolytic Capacitor |     |   |
|          | TUNS500F28 1000 $\mu$ F 50V Electrolytic Capacitor   |     |   |
|          | TUNS500F48 470 $\mu$ F 63V Electrolytic Capacitor    |     |   |

Fig.1 Testing circuitry