



KHNA30F Safety test result

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| No. | Test item                                 | Test Conditions   | Conditions of acceptability   | Result |
|-----|---|---|---|--------|
| 1   | High temp./Overload test                  | (1) Rated input AC115V,AC230V<br>(2) Overload<br>(3) Ambient temp. 60°C<br>(4) Test period 48 hours   | (1)Power supply is not failed.  | OK     |
| 2   | No ventilation test                       | (1) Rated input AC115V<br>(2) Rated output<br>(3) Ambient temp. 25±10°C<br>(4) Test period 48 hours   | (1)No smoke, no fire.   | OK     |
| 3   | Capacitance reduction test                | (1) Rated input AC115V<br>(2) Rated output<br>(3) Ambient temp. 25±10°C   | (1)No smoke, no fire.<br>(2)No rise of the output voltage.  | OK     |
| 4   | Low voltage input test                    | (1) Input : Min. regulation voltage AC63V<br>(2) Rated output<br>(3) Ambient temp. 25±10°C<br>(4) Test period 48 hours  | (1)Power supply is not failed.  | OK     |
| 5   | Input On/Off test                         | (1) Input : Max voltage AC264V<br>T= 2sec Duty= 50%<br>(2) Rated output<br>(3) Ambient temp. 70°C<br>(4) On/Off period 1,000 times  | (1)Power supply is not failed.<br>(2)The surge current of each components should not exceed the rated value.                      | OK     |
| 6   | Output On/Off test                        | (1) Rated input AC230V<br>(2) Output 0%←→100%<br>T= 2sec Duty= 50%<br>(3) Ambient temp. 25±10°C<br>(4) On/Off period 1,000 times  | (1)Power supply is not failed.  | OK     |
| 7   | Output-Short start test                   | (1) Rated input AC230V<br>(2) Output : Short start<br>(3) Ambient temp. 25±10°C   | (1)Power supply is not failed.  | OK     |
| 8   | Output short test                         | (1) Rated input AC230V<br>(2) Output : Short<br>(3) Ambient temp. 25±10°C<br>(4) Test period 48 hours   | (1)Power supply is not failed.  | OK     |
| 9   | Withstand voltage test<br>(High-pot test) | (1) Input : Not applied<br>(2) Ambient temp. 25±10°C<br>(3) The applied voltage is 1.4 times of specifications.   | (1)Insulation breakdown , flashover or electric arc is not occurred.  | OK     |
| 10  | Isolation resistance test                 | (1) Input : Not applied<br>(2) Ambient temp. 25±10°C  | (1)When a regulation voltage is applied, isolation resistance is 1.4 times of specifications.                                     | OK     |
| 11  | Vibration/Impact test                     | Vibration: (1)f=10~150Hz : 29.4m/s <sup>2</sup><br>(2)3 minutes period<br>(3)60 minutes Z axis<br><br>Impact: (1)294.2m/s <sup>2</sup> 11ms<br>(2)Once each X, Y and Z axis | (1)No degradation of electric characteristics after test.<br>(2)No crack at solder joint.<br>(3)No marked damage of appearance.   | OK     |
| 12  | Line noise tolerance test                 | (1) Input AC230V<br>(2) Rated Output<br>(3) Ambient temp 25±10°C<br>(4) Test Voltage ±3 kV<br>(5) Pulse width 50~1000ns<br>(6) Mode : Normal and Common                     | (1)No protection circuit failure.<br>(2)No output voltage drop with control circuit failure.<br>(3)No any other function failure. | OK     |