

Approved : Yutuya MinoPrepared : Tetsuya Hirata

No.	Test item	Conditions	Conditions of Acceptability	Result
1	Line conduction	(1) Rated input(DC110V/AC90V) (2) Rated load (3) Ambient temp. 25±10°C (4) Testing circuitry Fig.1	(1)Meets the undermentioned standard. FCC Part15 classB , VCCI classB CISPR22 classB , EN55022-B	OK
2	Radiated emission	(1) Rated input(DC110V/AC90V) (2) Rated load (3) Ambient temp. 25±10°C (4) Testing circuitry Fig.1	(1)Meets the undermentioned standard. FCC Part15 classB , VCCI classB CISPR22 classB , EN55022-B	OK
3	Static electricity immunity test (EN61000-4-2)	(1) Rated input(DC110V/AC90V) (2) Rated load (3) Ambient temp. 25±10°C (4) Contact discharge voltage 8[kV] (EN61000-4-2 Level 4) (5) 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
4	Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3)	(1) Rated input(DC110V/AC90V) (2) Rated load (3) Ambient temp. 25±10°C (4)Testing field strength 10[V/m] (EN61000-4-3 Level 3) (5) 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
5	Electrical fast transient/ burst immunity test (EN61000-4-4)	(1) Rated input(DC110V/AC90V) (2) Rated load (3) Ambient temp. 25±10°C (4) Test peak voltage 4[kV] (IEC61000-4-4 Level 4) (5) 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
6	Surge immunity test (EN61000-4-5)	(1) Rated input(DC110V/AC90V) (2) Rated load (3) Ambient temp. 25±10°C (4) Test voltage Line to line 2[kV] (Level 3) Line to earth 4[kV] (Level 4) (5) Testing circuitry Fig.2	(1)The power supply is not stop (2)Circuit does not malfunction. (3)No abnormality of the insulation destruction etc. (4)Parts are no damaged.	OK
7	Immunity to conducted disturbances, induced by radio-frequency fields (EN61000-4-6)	(1) Rated input(DC110V/AC90V) (2) Rated load (3) Ambient temp. 25±10°C (4) Voltage level (e.m.f.) 10[V] (Level 3) (5) 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

OEMI/EMS testing circuitry

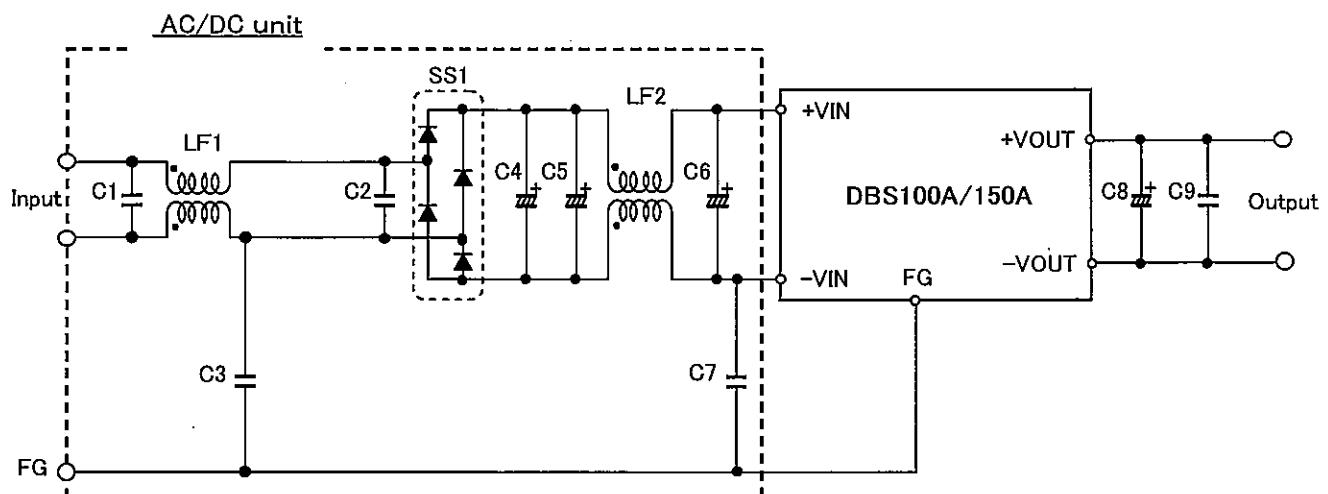


Fig.1 testing circuitry (from No.1 to No.5 ,No.7)

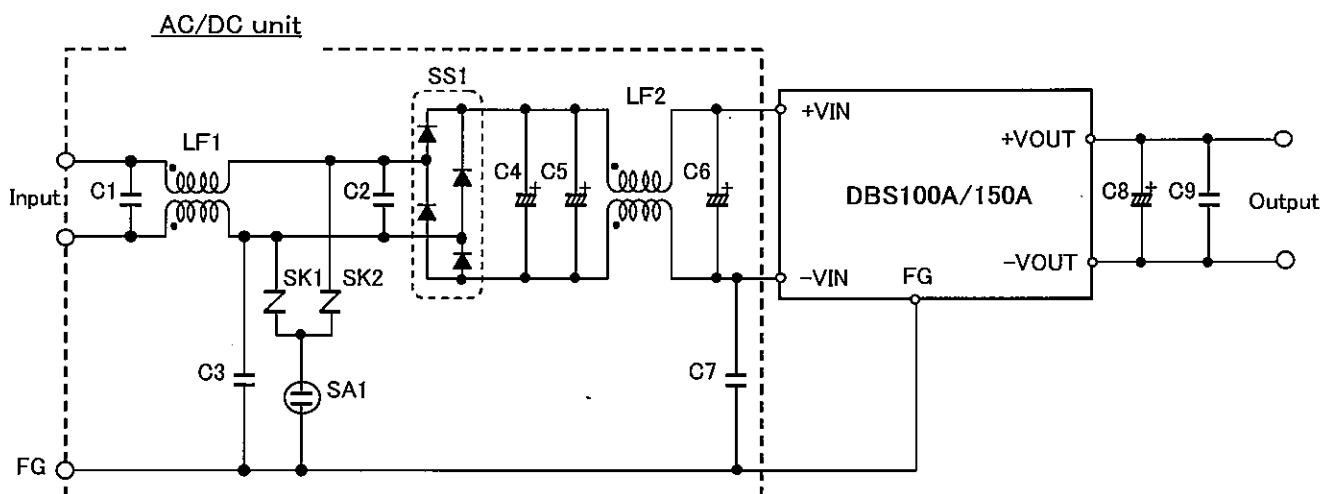


Fig.2 testing circuitry (No.6)

C1 , C2 : $0.47 \mu F$ 250V Film capacitor
 C3 , C7 : 3300pF 250V Ceramic capacitor
 C4 , C5 : $1000 \mu F$ 250V Electric capacitor
 C6 : $47 \mu F$ 250V Electric capacitor
 LF1 : 2mH 5A Common mode Choke Coil
 LF2 : 1mH 5A Common mode Choke Coil
 SA1 : DSA302 (MITSUBISHI MATERIALS CORP ADVANCED PRODUCTS)
 SK1, SK2 : ERZV10D271(PANASONIC CO LTD)
 SS1 : 25A 600V Bridge diode

C8 : $2200 \mu F$ 10V Electric capacitor (DBS100A05)
 : $1000 \mu F$ 25V Electric capacitor (DBS100A13R8/DBS150A12, 15)
 : $470 \mu F$ 35V Electric capacitor (DBS150A24)
 C9 : $0.1 \mu F$ 50V Film capacitor
 or equivalent.