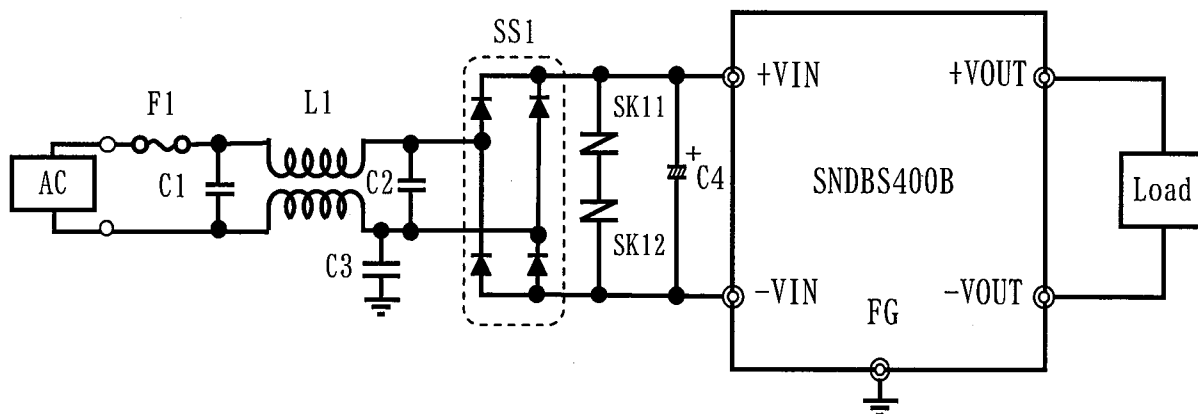


SNDBS400B series EMI/EMS Test resultApproved : Takahiro Yoneda  
Takahiro YonedaPrepared : Satoshi Kinoshita  
Satoshi Kinoshita

No.	Test item	Conditions	Conditions of Acceptability	Result
1	Line conduction	(1) Rated input AC230V (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Testing circuitry Fig.1	(1) Meets the undermentioned standard. FCC Part15 classA, VCCI classA CISPR22 classA, EN55022-A EN55011-A	OK
2	Radiated emission	(1) Rated input AC230V (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Testing circuitry Fig.1	(1) Meets the undermentioned standard. FCC Part15 classA, VCCI classA CISPR22 classA, EN55022-A EN55011-A	OK
3	Static electricity immunity test (EN61000-4-2)	(1) Rated input DC280V (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Contact discharge voltage 8[kV] (EN61000-4-2 Level 4)	(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 DC280V (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Testing field strength (Level 3) ① 10[V/m] (80MHz to 1.0GHz) ② 3[V/m] (1.4GHz to 2.0GHz) ③ 1[V/m] (2.0GHz to 2.7GHz)	(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 AC230V (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Test peak voltage 4[kV] (Level 4) (5) Testing circuitry Fig.2	(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 AC230V (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Test voltage Line to line 2[kV] (Level 3) Line to earth 2[kV] (Level 3) (5) Testing circuitry Fig.3	(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 DC280V (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Voltage level (e.m.f.) 10[V] (Level 3)	(1) No protection circuit failure. (2) No output voltage drop with control circuit failure. (3) No any other function failure	OK



F1: 20A 250VAC  
 C1, C2: 0.47  $\mu$ F  
 C3: 100 $\mu$ F  
 C4: 480  $\mu$ F  
 SS1: 25A 600V  
 L1: 2.0mH 5A  
 SK11, SK12: ENE471D-14A

Fig.3 Surge immunity test Testing circuitry

**COSEL**

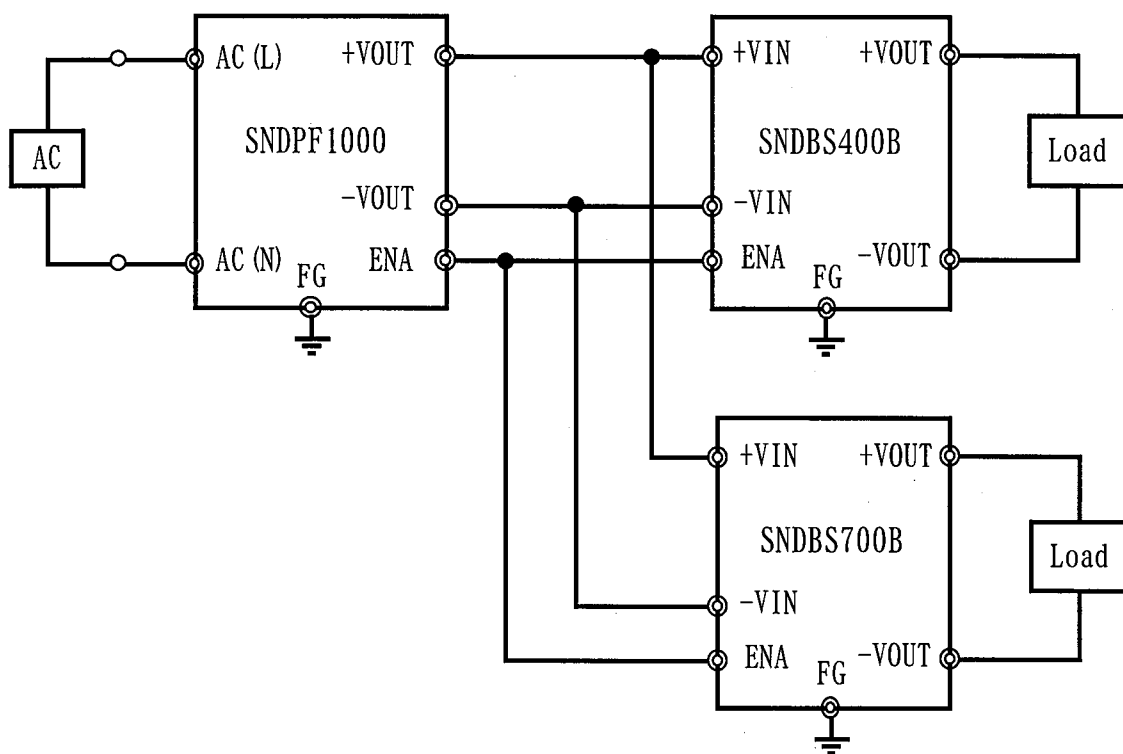
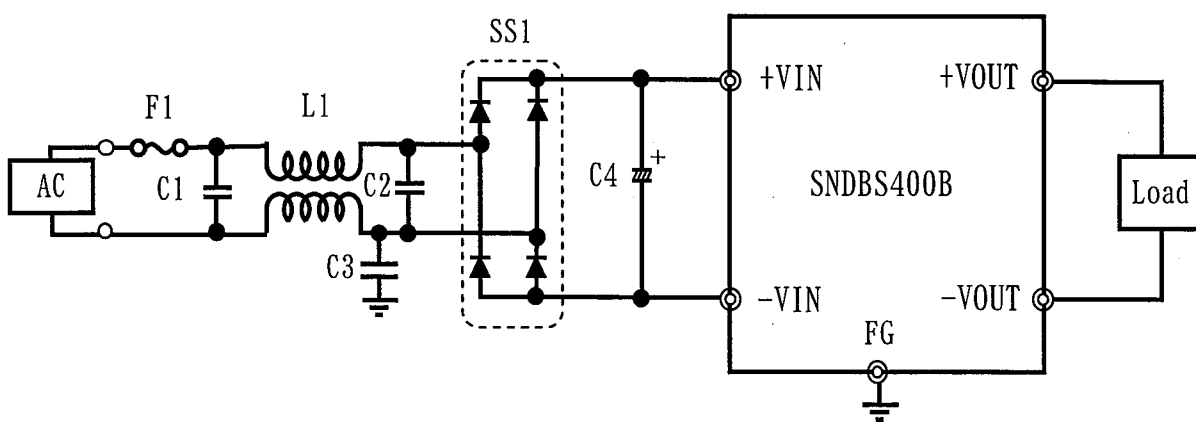


Fig.1 Testing circuitry



F1: 20A 250VAC  
 C1, C2: 0.47  $\mu$ F  
 C3: 100  $\mu$ F  
 C4: 480  $\mu$ F  
 SS1: 25A 600V  
 L1: 2.0mH 5A

Fig.2 Electrical fast transient/ burst immunity test Testing circuitry