



# **CBS350 EMI / EMS Test results**

Feb 10, 2005

R&amp;D DEPT.2

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No.	Test item	Conditions	Conditions of Acceptability	Result
1	Line conduction	(1) Rated input (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Test circuit Fig.1	(1)Meets the undermentioned FCC Part15 classA , VCCI classA CISPR22 classA , EN55022-A	ok
2	Radiated emission	(1) Rated input (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Test circuit Fig.1	(1)Meets the undermentioned FCC Part15 classA , VCCI classA CISPR22 classA , EN55022-A	ok
3	Static electricity immunity test (EN61000-4-2)	(1) Rated input (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Contact discharge voltage 8[kV] (Level 4) (5) Test circuit 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 (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4)Testing field strength 10[V/m] (Level 3) (5) Test circuit 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 (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Test peak voltage 4[kV] (Level 4) (5) Test circuit 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 (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 4[kV] (Level 4) (5) Test circuit Fig.2	(1)The power supply is not stc (2)Circuit does not malfunction. (3)No abnormality of the insulation destruction etc. (4)Parts are no damaged.	ok

OEMI/EMS testing circuitry

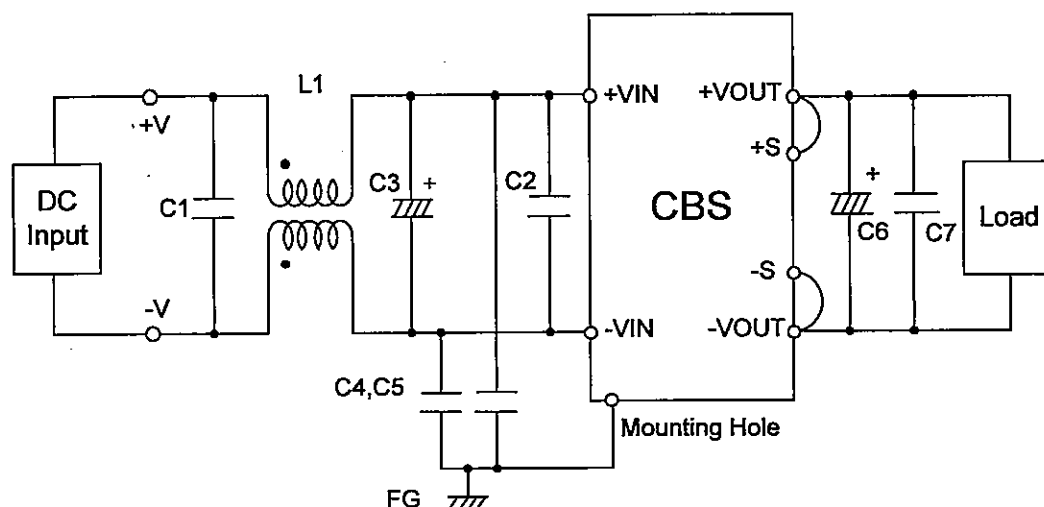


Fig.1 testing circuitry (from No.1 to No.5)

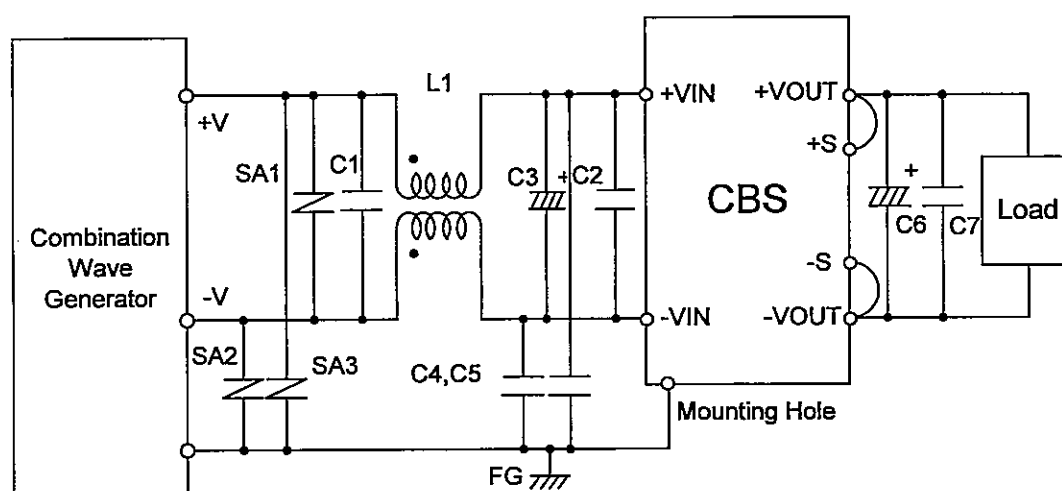


Fig.2 testing circuitry (No.6)

- L1 : 0.5mH 18A Inductor (CBS3502412,2424,2428,2432)
- : 1mH 10A Inductor (CBS3504812,4824,4828,4832)
- C1,2 : 3.3 $\mu$ F Film capacitor
- C3 : 50V 220 $\mu$ F Electric capacitor  $\times$  2 (CBS3502412,2424,2428,2432)
- : 100V 68 $\mu$ F Electric capacitor  $\times$  2 (CBS3504812,4824,4828,4832)
- C4,5 : 630V 0.068 $\mu$ F Film capacitor
- C6 : 16V 470 $\mu$ F Electric capacitor (CBS3502412,4812)
- : 35V 220 $\mu$ F Electric capacitor (CBS3502424,2428,4824,4828)
- : 50V 220 $\mu$ F Electric capacitor (CBS3502432,4832)
- C7 : 50V 0.1 $\mu$ F Film capacitor
- SA1,2,3 : ERZV10D470 (CBS3502412,2424,2428,2432)
- : ERZV10D101 (CBS3504812,4824,4828,4832)

or equivalent.