

BRNS series EMI/EMS Test result

Approved

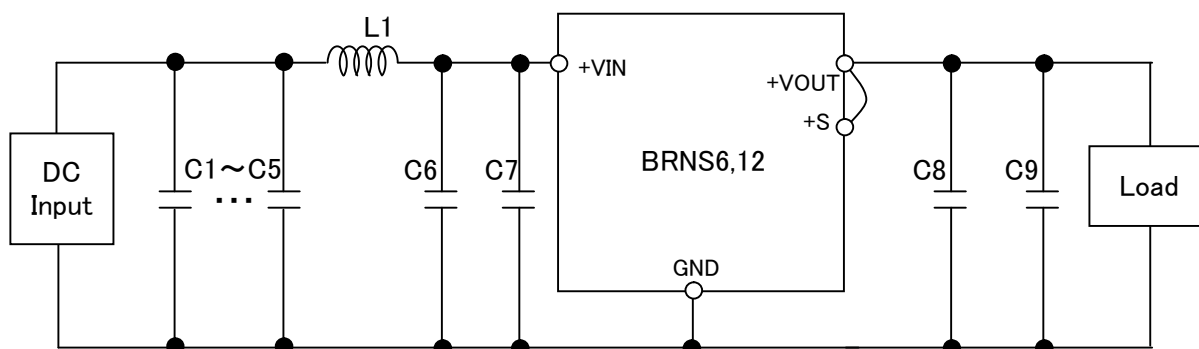

Yoshimichi Hirokawa

Prepared


Youhei Urayama

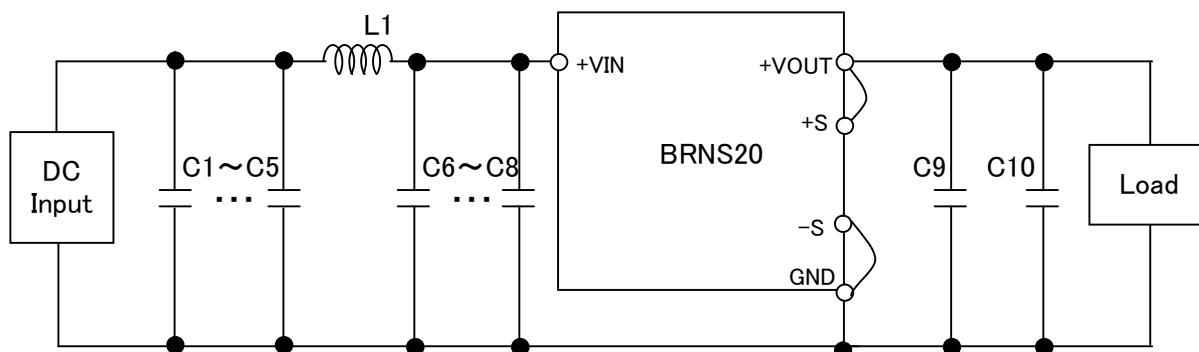
No.	Test item	Conditions	Conditions of Acceptability	Result
1	Line conduction	(1) Rated input(DC12V) (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Testing circuitry Fig.1, Fig2	(1) Meets the undermentioned standard. FCC Part15 classA, VCCI classA CISPR22 classA, EN55022-A	OK
2	Radiated emission	(1) Rated input(DC12V) (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Testing circuitry Fig.1, Fig2	(1) Meets the undermentioned standard. FCC Part15 classA, VCCI classA CISPR22 classA, EN55022-A	OK
3	Static electricity immunity test (EN61000-4-2)	(1) Rated input(DC12V) (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Contact discharge voltage 8[kV] (EN61000-4-2 Level 4) (5) Testing circuitry Fig.1, Fig2	(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(DC12V) (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Testing field strength 10[V/m] (EN61000-4-3 Level 3) (5) Testing circuitry Fig.1, Fig2	(1) No protection circuit failure. (2) No output voltage drop with control circuit failure. (3) No any other function failure	OK

○ Testing circuitry



C1~C5	: 16V	22 μ F	Ceramic capacitor
C6, C7	: 16V	22 μ F	Ceramic capacitor
C8	: 6.3V	47 μ F	Ceramic capacitor
C9	: 6.3V	100 μ F	Ceramic capacitor
L1	: 0.2 μ H	PCMB063T-0R2	(CYNTEC CO.,LTD.)

Fig.1 Testing Circuitry(BRNS6,12)



C1~C5	: 16V	22 μ F	Ceramic capacitor
C6~C8	: 16V	22 μ F	Ceramic capacitor
C9, C10	: 6.3V	100 μ F	Ceramic capacitor
L1	: 0.2 μ H	PCMB063T-0R2	(CYNTEC CO.,LTD.)

Fig.2 Testing Circuitry(BRNS20)