

## ABNORMAL TEST RESULT

## OF MODEL BRNS20

1. Did Cheese Cloth or Paper Glow?

No.

2. Did Ground Fuse Open?

No.

3. Dielectric breakdown?

No.

4. Other Results?

See the following pages .

( FMEA : 2/ 8 ~ 7/ 8)

( Abnormal Test Result: 8/ 8 ~ 8/ 8)

There was no emission of flame, molten metal, ignition of cheesecloth, dielectric breakdown, opening of the ground fuse, other indication of a shock or fire hazard.

F M E A

Component	Mode	Comment	Output Voltage (V)
C11	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C12	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C21	Open	Normal operation.	
	Short	Normal operation.	
C31	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C32	Open	Normal operation.	
	Short	Normal operation.	
C41	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C42	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C43	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C51	Open	No hazard.	AVR1:0
	Short	Normal operation.	
C52	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C61	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C62	Open	No hazard.	AVR1:0
	Short	Output voltage decreased. No hazard.	AVR1:decreased

F M E A

Component	Mode		Comment	Output Voltage (V)
C63	Open		Normal operation.	
	Short		No hazard.	AVR1:0
C65	Open		Normal operation.	
	Short		Normal operation.	
C71	Open		Normal operation.	
	Short		See 8 Page.	
C72	Open		No hazard.	AVR1:0
	Short		See 8 Page.	
D31	Open		Normal operation.	
	Short		Normal operation.	
D41	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
IC41	Open	1	Normal operation.	
		2	No hazard.	AVR1:0
		3	Output voltage increased. No hazard.	AVR1:Increased
		4	No hazard.	AVR1:0
		5	Normal operation.	
		6	Normal operation.	
		7	Normal operation.	
		8	No hazard.	AVR1:0
		9	Normal operation.	
		10	Normal operation.	
		11	Normal operation.	
		12	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC41	Open	13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		15	See 8 Page.	
		16	No hazard.	AVR1:0
		17	No hazard.	AVR1:0
		18	No hazard.	AVR1:0
		19	Normal operation.	
		20	Normal operation.	
		21	Normal operation.	
		22	Normal operation.	
		23	Normal operation.	
		24	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	Output voltage increased. No hazard.	AVR1:Increased
		3-4	No hazard.	AVR1:0
		4-5	Normal operation.	
		5-6	Normal operation.	
		6-7	Normal operation.	
		7-8	No hazard.	AVR1:0
		8-9	Normal operation.	
		9-10	Normal operation.	
		10-11	Normal operation.	
		11-12	Normal operation.	
		12-13	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC41	Short	13-14	No hazard.	AVR1:0
		14-15	External Fuse opened, No hazard.	AVR1:0
		15-16	See 8 Page.	
		16-17	No hazard.	AVR1:0
		17-18	External Fuse opened, No hazard.	AVR1:0
		18-19	No hazard.	AVR1:0
		19-20	Normal operation.	
		20-21	Normal operation.	
		21-22	Normal operation.	
		22-23	Normal operation.	
		23-24	No hazard.	AVR1:0
L11	Open		No hazard.	AVR1:0
	Short		Normal operation.	
TR11	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	External Fuse opened, No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	See 8 Page.	
TR12	Open	D	See 8 Page.	
		S	See 8 Page.	
		G	See 8 Page.	
	Short	D-S	See 8 Page.	
		S-G	See 8 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR12	Short	G-D	See 8 Page.	
TR13	Open	D	See 8 Page.	
		S	See 8 Page.	
		G	See 8 Page.	
	Short	D-S	See 8 Page.	
		S-G	See 8 Page.	
		G-D	See 8 Page.	
TR21	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	Normal operation.	
ZD21	Open		Normal operation.	
	Short		No hazard.	AVR1:0
R21	Open		Normal operation.	
R23	Open		Normal operation.	
R24	Open		Normal operation.	
R25	Open		Normal operation.	
R31	Open		Normal operation.	
R32	Open		Normal operation.	
R33	Open		Normal operation.	
R41	Open		No hazard.	AVR1:0
R42	Open		No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
R43	Open	No hazard.	AVR1:0
R44	Open	Normal operation.	
R45	Open	See 8 Page.	
R46	Open	See 8 Page.	
R47	Open	Normal operation.	
R48	Open	Normal operation.	
R49	Open	No hazard.	AVR1:0
R51	Open	Normal operation.	
R52	Open	Normal operation.	
R53	Open	Normal operation.	
R54	Open	Normal operation.	
R61	Open	Normal operation.	
R62	Open	Output voltage increased. No hazard.	AVR1:Increased
R63	Open	Normal operation.	
R64	Open	Output voltage increased. No hazard.	AVR1:Increased
R65	Open	Normal operation.	
R66	Open	Normal operation.	
R71	Open	Normal operation.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C71	Short		No hazard.	AVR1:0
C72	Short		No hazard.	AVR1:0
IC41	Open	15	No hazard.	AVR1:*
	Short	15-16	No hazard.	AVR1:0
TR11	Short	G-D	Output voltage increased. No hazard.	AVR1:Increased
TR12	Open	D	No hazard.	AVR1:*
		S	No hazard.	AVR1:*
		G	No hazard.	AVR1:*
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:*
		G-D	No hazard.	AVR1:0
TR13	Open	D	No hazard.	AVR1:*
		S	No hazard.	AVR1:*
		G	No hazard.	AVR1:*
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:*
		G-D	No hazard.	AVR1:0
R45	Open		No hazard.	AVR1:*
R46	Open		No hazard.	AVR1:*