

ABNORMAL TEST RESULT

OF MODEL BRFS40

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 : 2/18 ~ 16/18)

(Abnormal Test Result: 17/18 ~ 18/18)

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)
C101	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C102	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C103	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C104	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C105	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C106	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C107	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C108	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C109	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C110	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C113	Open	No hazard.	
	Short	Normal operation.	AVR1:0
C114	Open	No hazard.	
	Short	Normal operation.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C115	Open	No hazard.	
	Short	Normal operation.	AVR1:0
C201	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C204	Open	No hazard.	AVR1:0
	Short	Normal operation.	
C205	Open	Normal operation.	
	Short	Normal operation.	
C206	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C207	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C301	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C302	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C303	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C304	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C305	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C306	Open	Normal operation.	
	Short	No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C307	Open	Normal operation.	
	Short	Normal operation.	
C308	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C310	Open		
	Short	Output voltage increased. No hazard.	AVR1:Increased
C311	Open	Normal operation.	
	Short	Output voltage increased. No hazard.	AVR1:Increased
C312	Open	Normal operation.	
	Short	Normal operation.	
C313	Open	Normal operation.	
	Short	Output voltage increased. No hazard.	AVR1:Increased
C401	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C402	Open	Normal operation.	
	Short	Normal operation.	
C403	Open	Normal operation.	
	Short	Normal operation.	
C404	Open	Normal operation.	
	Short	Normal operation.	
C405	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C406	Open	No hazard.	
	Short	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
C407	Open		No hazard.	AVR1:0
	Short		Normal operation.	
C501	Open		Normal operation.	
	Short		Output voltage increased. No hazard.	AVR1:Increased
C502	Open		Normal operation.	
	Short		Output voltage increased. No hazard.	AVR1:Increased
C503	Open		Normal operation.	
	Short		No hazard.	AVR1:0
CN1	Open		No hazard.	AVR1:0
CN2	Open		No hazard.	AVR1:0
CN3	Open		Normal operation.	
CN4	Open		Normal operation.	
CN5	Open		No hazard.	AVR1:0
CN6	Open		Output voltage decreased. No hazard.	AVR1:decreased
CN7	Open		Normal operation.	
CN8	Open		Normal operation.	
CN9	Open		Normal operation.	
CN10	Open		Normal operation.	
D201	Open	1	Normal operation.	
		2	Normal operation.	
		3	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		1-3	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
D401	Open		Normal operation.	
	Short		Normal operation.	
IC101	Open	1	No hazard.	AVR1:0
		2	Normal operation.	
		3	Normal operation.	
		4	No hazard.	AVR1:0
		5	Normal operation.	
		6	Normal operation.	
		7	Normal operation.	
		8	No hazard.	AVR1:0
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		3-4	Normal operation.	
		5-6	Normal operation.	
		6-7	Normal operation.	
		7-8	Normal operation.	
IC102	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC102	Short	1-2	Normal operation.	
		2-3	No hazard.	AVR1:0
		3-4	Normal operation.	
		5-6	No hazard.	AVR1:0
		6-7	Normal operation.	
		7-8	Normal operation.	
IC103	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	See 17 Page.	
		4	No hazard.	AVR1:0
		5	See 17 Page.	
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
	Short	1-2	External Fuse opened, No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0
		7-8	No hazard.	AVR1:0
IC301	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	Normal operation.	
		4	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Open	5	Normal operation.	
		6	Normal operation.	
		7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
		9	No hazard.	AVR1:0
		10	No hazard.	AVR1:0
		11	Normal operation.	
		12	Normal operation.	
		13	Normal operation.	
		14	Normal operation.	
		15	No hazard.	AVR1:0
		16	See 17 Page.	
		17	Normal operation.	
		18	Normal operation.	
		19	No hazard.	AVR1:0
		20	Normal operation.	
		21	Normal operation.	
		22	Normal operation.	
		23	Normal operation.	
		24	Normal operation.	
		25	No hazard.	AVR1:0
		26	No hazard.	AVR1:0
		27	No hazard.	AVR1:0
		28	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Open	29	No hazard.	AVR1:0
		30	Normal operation.	
		31	Output voltage increased. No hazard.	AVR1:Increased
		32	Output voltage increased. No hazard.	AVR1:Increased
		33	Output voltage increased. No hazard.	AVR1:Increased
		34	Output voltage decreased. No hazard.	AVR1:decreased
		35	No hazard.	AVR1:0
		36	Normal operation.	
		37	No hazard.	AVR1:0
		38	No hazard.	AVR1:0
		39	Normal operation.	AVR1:0
		40	Output voltage increased. No hazard.	AVR1:Increased
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
		5-6	Normal operation.	
		6-7	Normal operation.	
		7-8	Normal operation.	
		8-9	Normal operation.	
		9-10	No hazard.	AVR1:0
		10-11	Normal operation.	
		11-12	Normal operation.	
		12-13	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Short	13-14	Normal operation.	
		14-15	Normal operation.	
		15-16	No hazard.	AVR1:0
		16-17	Normal operation.	
		17-18	Normal operation.	
		18-19	Normal operation.	
		19-20	No hazard.	AVR1:0
		20-21	Normal operation.	
		21-22	Normal operation.	
		22-23	Normal operation.	
		23-24	Normal operation.	
		24-25	Normal operation.	
		25-26	No hazard.	AVR1:0
		26-27	No hazard.	AVR1:0
		27-28	No hazard.	AVR1:0
		28-29	No hazard.	AVR1:0
		29-30	Normal operation.	
		30-31	Normal operation.	
		31-32	No hazard.	AVR1:0
		32-33	Output voltage decreased. No hazard.	AVR1:decreased
		33-34	Output voltage increased. No hazard.	AVR1:Increased
		34-35	Output voltage decreased or increased.	AVR1:decreased or increased
		35-36	Normal operation.	
		36-37	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Short	37-38	Output voltage decreased No hazard.	AVR1:decreased
		38-39	Normal operation.	
		39-40	Normal operation.	
		40-1	No hazard.	AVR1:0
IC401	Open	1	Normal operation.	
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	
		7	Normal operation.	
		8	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		3-4	Normal operation.	
		5-6	Normal operation.	
		6-7	Normal operation.	
		7-8	No hazard.	AVR1:0
IC501	Open	1	Output voltage increased. No hazard.	AVR1:Increased
		2	Output voltage increased. No hazard.	AVR1:Increased
		3	Output voltage increased. No hazard.	AVR1:Increased
	Short	1-2	Output voltage decreased No hazard.	AVR1:decreased
		2-3	Output voltage increased. No hazard.	AVR1:Increased
L101	Open		No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
L101	Short		No hazard.	AVR1:0
TH201	Open		Normal operation.	
	Short		No hazard.	AVR1:0
TR101	Open	G (Hi)	See 17 Page.	
		D (Hi)	See 17 Page.	
		S (Hi), D (Lo)	See 17 Page.	
		G (Lo)	See 17 Page.	
		S (Lo)	See 17 Page.	
	Short	D (Hi) - S (Hi)	See 17 Page.	
		S (Hi) - G (Hi)	See 17 Page.	
		G (Hi) - D (Hi)	See 17 Page.	
		D (Lo) - S (Lo)	See 17 Page.	
		S (Lo) - G (Lo)	See 17 Page.	
		G (Lo) - D (Lo)	See 17 Page.	
TR102	Open	G (Hi)	See 17 Page.	
		D (Hi)	See 17 Page.	
		S (Hi), D (Lo)	See 17 Page.	
		G (Lo)	See 17 Page.	
		S (Lo)	See 17 Page.	
	Short	D (Hi) - S (Hi)	See 17 Page.	
		S (Hi) - G (Hi)	See 17 Page.	
		G (Hi) - D (Hi)	See 17 Page.	
		D (Lo) - S (Lo)	See 17 Page.	
		S (Lo) - G (Lo)	See 17 Page.	
		G (Lo) - D (Lo)	See 17 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR102	Short	G(Lo)-D(Lo)	See 18 Page.	
TR202	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR203	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.	
TR401	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
ZD301	Open	1		
		2		
		3		
	Short	1-2	Output voltage increased. No hazard.	AVR1:Increased
		2-3	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
ZD301	Short	1-3	Output voltage increased. No hazard.	AVR1:Increased
ZD401	Open		Normal operation.	
	Short		Normal operation.	
R101	Open		Normal operation.	
R102	Open		Normal operation.	
R103	Open		Normal operation.	
R104	Open		No hazard.	AVR1:0
R105	Open		Normal operation.	
R106	Open		Normal operation.	
R107	Open		Normal operation.	
R108	Open		Normal operation.	
R109	Open		Normal operation.	
R110	Open		Normal operation.	
R111	Open		Normal operation.	
R201	Open		No hazard.	AVR1:0
R202	Open		Normal operation.	
R206	Open		No hazard.	AVR1:0
R207	Open		No hazard.	AVR1:0
R208	Open		No hazard.	AVR1:0
R209	Open		Normal operation.	
R210	Open		Normal operation.	
R211	Open		Normal operation.	
R212	Open		Normal operation.	
R213	Open		No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
R214	Open	Normal operation.	
R215	Open	Normal operation.	
R217	Open	No hazard.	AVR1:0
R218	Open	No hazard.	AVR1:0
R301	Open	No hazard.	AVR1:0
R302	Open	Normal operation.	
R303	Open	No hazard.	AVR1:0
R304	Open	Output voltage decreased No hazard.	AVR1:decreased
R305	Open	Output voltage increased. No hazard.	AVR1:Increased
R306	Open	Normal operation.	
R307	Open	Output voltage decreased No hazard.	AVR1:decreased
R308	Open	Output voltage increased. No hazard.	AVR1:Increased
R310	Open	Output voltage increased. No hazard.	AVR1:Increased
R311	Open	Output voltage decreased No hazard.	AVR1:decreased
R312	Open	Output voltage increased. No hazard.	AVR1:Increased
R316	Open	Normal operation.	
R401	Open	Normal operation.	
R402	Open	Normal operation.	
R403	Open	Normal operation.	
R404	Open	Normal operation.	
R405	Open	Normal operation.	
R406	Open	No hazard.	AVR1:0
R407	Open	No hazard.	AVR1:0
R408	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R409	Open	Normal operation.	
R410	Open	Normal operation.	
R411	Open	Normal operation.	
R412	Open	Normal operation.	
R413	Open	Normal operation.	
R414	Open	Normal operation.	
R415	Open	Normal operation.	
R416	Open	Normal operation.	
R417	Open	Normal operation.	
R418	Open	Normal operation.	
R419	Open	Normal operation.	
R420	Open	Normal operation.	
R502	Open	Output voltage increased. No hazard.	AVR1:Increased
R503	Open	Output voltage increased. No hazard.	AVR1:Increased

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
IC103	Open	3	Normal operation.	
		5	Normal operation.	
IC301	Open	16	Normal operation.	
TR101	Open	G(Hi)	No hazard.	AVR1:0
		D(Hi)	No hazard.	AVR1:0
		S(Hi), D(Lo)	No hazard.	AVR1:0
		G(Lo)	Normal operation.	
		S(Lo)	External Fuse opened, No hazard.	AVR1:0
	Short	D(Hi)-S(Hi)	Output voltage increased. No hazard.	AVR1:Increased
		S(Hi)-G(Hi)	No hazard.	AVR1:0
		G(Hi)-D(Hi)	No hazard.	AVR1:0
		D(Lo)-S(Lo)	External Fuse opened, No hazard.	AVR1:0
		S(Lo)-G(Lo)	Normal operation.	
		G(Lo)-D(Lo)	External Fuse opened, No hazard.	AVR1:0
TR102	Open	G(Hi)	No hazard.	AVR1:0
		D(Hi)	No hazard.	AVR1:0
		S(Hi), D(Lo)	No hazard.	AVR1:0
		G(Lo)	Normal operation.	
		S(Lo)	External Fuse opened, No hazard.	AVR1:0
	Short	D(Hi)-S(Hi)	Output voltage increased. No hazard.	AVR1:Increased
		S(Hi)-G(Hi)	No hazard.	AVR1:0
		G(Hi)-D(Hi)	No hazard.	AVR1:0
		D(Lo)-S(Lo)	External Fuse opened, No hazard.	AVR1:0
		S(Lo)-G(Lo)	Normal operation.	



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR102	Short	G(Lo)-D(Lo)	External Fuse opened, No hazard.	AVR1:0