



## ABNORMAL TEST RESULT

OF MODEL MUS3□□

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 : 2/10 ~ 9/10)

( Abnormal Test Result: 10/10 ~ 10/10)

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	See page 10.	
C13 (Only 48Vin)	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C16	Open	Normal operation.	
	Short	Normal operation.	
C21	Open	Normal operation.	
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C22	Open	Normal operation.	
	Short	See page 10.	
C24	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C25	Open	Normal operation.	
	Short	Normal operation.	
C28	Open	Normal operation.	
	Short	Normal operation.	
C31	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C33	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C34	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C35	Open	Normal operation.	
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C48	Open	Normal operation.	
	Short	Normal operation.	
C51	Open	Normal operation.	
	Short	See page 10.	
C52 (Only 3R3, 05Vo)	Open	Normal operation.	
	Short	See page 10.	
C54	Open	Normal operation.	
	Short	See page 10.	
C71	Open	Output voltage decreased. No Hazard.	AVR1:decreased
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C72	Open	Normal operation.	
	Short	Output voltage decreased. No Hazard.	AVR1:decreased
C74 (Only 3R3, 05Vo)	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C91	Open	Normal operation.	
	Short	Normal operation.	
D11 (Only 48Vin)	Open	Normal operation.	
	Short	Normal operation.	
D16 (Except 05Vin)	Open	Normal operation.	
	Short	Normal operation.	
D21 (Only 05Vin)	Open	Normal operation.	
	Short	See page 10.	
D22	Open	Normal operation.	
	Short	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
D23	Open		Normal operation.	
	Short		Normal operation.	
D41	Open		Normal operation.	
	Short		Normal operation.	
D51	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D52	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
IC31	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	
		3	No Hazard.	AVR1:0
		4	Normal operation.	
		5	Normal operation.	
		6	Output voltage increased. No Hazard.	AVR1:increased
		7	Normal operation.	
		8	Normal operation.	
		9	Normal operation.	
		10	No Hazard.	AVR1:0
		11	No Hazard.	AVR1:0
		12	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	
		2-3	No Hazard.	AVR1:0
		3-4	No Hazard.	AVR1:0
		4-5	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC31	Short	5-6	No Hazard.	AVR1:0
		7-8	Normal operation.	
		8-9	Normal operation.	
		9-10	No Hazard.	AVR1:0
		10-11	No Hazard.	AVR1:0
		11-12	No Hazard.	AVR1:0
IC71	Open	3	Output voltage increased. No Hazard.	AVR1:increased
		4	Output voltage increased. No Hazard.	AVR1:increased
		5	Output voltage increased. No Hazard.	AVR1:increased
	Short	4-5	Output voltage increased. No Hazard.	AVR1:increased
L11	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L51	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
PC31	Open	A, K	Output voltage increased. No Hazard.	AVR1:increased
		C, E	Output voltage increased. No Hazard.	AVR1:increased
	Short	A-K	Output voltage increased. No Hazard.	AVR1:increased
		C-E	No Hazard.	AVR1:0
R11	Open		No Hazard.	AVR1:0
R12 (Only 48Vin)	Open		Normal operation.	
R16	Open		Normal operation.	
R18	Open		Normal operation.	
R19	Open		Normal operation.	
R20	Open		Output voltage decreased. No Hazard.	AVR1:decreased



F M E A

Component	Mode	Comment	Output Voltage (V)
R21	Open	Normal operation.	
R22	Open	Normal operation.	
R23	Open	Normal operation.	
R24	Open	Normal operation.	
R25	Open	Normal operation.	
R26	Open	Normal operation.	
R27	Open	Normal operation.	
R28	Open	Normal operation.	
R29	Open	Normal operation.	
R30	Open	Normal operation.	
R31	Open	No Hazard.	AVR1:0
R32	Open	No Hazard.	AVR1:0
R33	Open	Normal operation.	
R34	Open	No Hazard.	AVR1:0
R35	Open	Normal operation.	
R36 (Except 05Vin)	Open	Normal operation.	
R37	Open	Normal operation.	
R39	Open	No Hazard.	AVR1:0
R41	Open	Normal operation.	
R42	Open	No Hazard.	AVR1:0
R43	Open	Normal operation.	
R48	Open	Normal operation.	
R49	Open	Normal operation.	
R51	Open	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
R61	Open		Output voltage increased. No Hazard.	AVR1:increased
R62	Open		Output voltage increased. No Hazard.	AVR1:increased
R63	Open		Output voltage increased. No Hazard.	AVR1:increased
R64	Open		Output voltage decreased. No Hazard.	AVR1:decreased
R65	Open		Normal operation.	
R66	Open		Output voltage increased. No Hazard.	AVR1:increased
R71	Open		Output voltage increased. No Hazard.	AVR1:increased
R72	Open		Normal operation.	
R73 (Only 12, 15Vo)	Open		Normal operation.	
R74	Open		Output voltage decreased. No Hazard.	AVR1:decreased
R75	Open		Normal operation.	
T11	Open	1	Normal operation.	
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	Normal operation.	
		5	Normal operation.	
		6 (Only 3R3, 05Vo)	No Hazard.	AVR1:0
		6 (Only 12, 15Vo)	Normal operation.	
		7 (Only 3R3, 05Vo)	No Hazard.	AVR1:0
		7 (Only 12, 15Vo)	Normal operation.	
		8	Normal operation.	
	Short	1-2	See page 10.	
		2-3	No Hazard.	AVR1:0
		3-4	External Fuse opened, No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
T11	Short	5-6	Normal operation.	
		6-7	See page 10.	
		7-8	Normal operation.	
TR11	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	No Hazard.	AVR1:0
	Short	D-S	See page 10.	
		S-G	No Hazard.	AVR1:0
		G-D	See page 10.	
TR21 (Except 05Vin)	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR22	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR33	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	





F M E A

Component	Mode		Comment	Output Voltage (V)
TR33	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0
TR48	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0
ZD21	Open		Normal operation.	
	Short	(Only 05Vin)	Normal operation.	
		(Except 05Vin)	Output voltage decreased. No Hazard.	AVR1:decreased
ZD22	Open		Normal operation.	
	Short		Normal operation.	



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C11	Short		External Fuse opened, No hazard.	AVR1:0
C22	Short		No Hazard.	AVR1:0
C51	Short		No Hazard.	AVR1:0
C52	Short		No Hazard.	AVR1:0
C54	Short		No Hazard.	AVR1:0
D21 (Only 05Vin)	Short		No Hazard.	AVR1:*
T11	Short	1-2	No Hazard.	AVR1:0
		6-7	No Hazard.	AVR1:0
TR11	Short	D-S	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0