



## ABNORMAL TEST RESULT

OF MODEL MUW3□□

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 : 2/11 ~ 10/11)

( Abnormal Test Result: 11/11 ~ 11/11)

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 11.	
C13 (Only 48Vin)	Open	Normal operation.	
	Short	No Hazard.	AVR1:0 AVR2:0
C16	Open	Normal operation.	
	Short	Normal operation.	
C21	Open	Normal operation.	
	Short	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
C22	Open	Normal operation.	
	Short	See page 11.	
C24	Open	Normal operation.	
	Short	No Hazard.	AVR1:0 AVR2:0
C25	Open	Normal operation.	
	Short	Normal operation.	
C28	Open	Normal operation.	
	Short	Normal operation.	
C31	Open	No Hazard.	AVR1:0 AVR2:0
	Short	Normal operation.	
C33	Open	Normal operation.	
	Short	No Hazard.	AVR1:0 AVR2:0
C34	Open	No Hazard.	AVR1:0 AVR2:0
	Short	No Hazard.	AVR1:0 AVR2:0
C35	Open	Normal operation.	
	Short	No Hazard.	AVR1:0 AVR2:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C48	Open	Normal operation.	
	Short	Normal operation.	
C51	Open	Normal operation.	
	Short	See page 11.	
C52	Open	Normal operation.	
	Short	See page 11.	
C53	Open	Normal operation.	
	Short	See page 11.	
C54	Open	Normal operation.	
	Short	See page 11.	
C57	Open	Normal operation.	
	Short	See page 11.	
C71	Open	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
	Short	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
C72	Open	Normal operation.	
	Short	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
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 11.	



F M E A

Component	Mode		Comment	Output Voltage (V)
D22	Open		Normal operation.	
	Short		Normal operation.	
D23	Open		Normal operation.	
	Short		Normal operation.	
D41	Open		Normal operation.	
	Short		Normal operation.	
D51	Open		Output voltage increased. No Hazard.	AVR1:0 AVR2:increased
	Short		No Hazard.	AVR1:0    AVR2:0
D52	Open		Output voltage increased. No Hazard.	AVR1:increased AVR2:0
	Short		No Hazard.	AVR1:0    AVR2:0
IC31	Open	1	No Hazard.	AVR1:0    AVR2:0
		2	Normal operation.	
		3	No Hazard.	AVR1:0    AVR2:0
		4	Normal operation.	
		5	Normal operation.	
		6	Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
		7	Normal operation.	
		8	Normal operation.	
		9	Normal operation.	
		10	No Hazard.	AVR1:0    AVR2:0
		11	No Hazard.	AVR1:0    AVR2:0
		12	No Hazard.	AVR1:0    AVR2:0
	Short	1-2	Normal operation.	
		2-3	External Fuse opened, No hazard.	AVR1:0    AVR2:0



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Component	Mode		Comment	Output Voltage (V)
IC31	Short	3-4	No Hazard.	AVR1:0    AVR2:0
		4-5	Normal operation.	
		5-6	No Hazard.	AVR1:0    AVR2:0
		7-8	Normal operation.	
		8-9	Normal operation.	
		9-10	No Hazard.	AVR1:0    AVR2:0
		10-11	No Hazard.	AVR1:0    AVR2:0
		11-12	No Hazard.	AVR1:0    AVR2:0
IC71	Open	3	Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
		4	Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
		5	Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
	Short	4-5	Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
L11	Open		No Hazard.	AVR1:0    AVR2:0
	Short		Normal operation.	
L51	Open		Output voltage increased. No Hazard.	AVR1:0 AVR2:increased
	Short		Normal operation.	
L52	Open		Output voltage increased. No Hazard.	AVR1:increased AVR2:0
	Short		Normal operation.	
PC31	Open	A, K	Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
		C, E	Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
	Short	A-K	Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
		C-E	No Hazard.	AVR1:0    AVR2:0
R11	Open		No Hazard.	AVR1:0    AVR2:0
R12    (Only 48Vin)	Open		Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R15	Open	Normal operation.	
R16	Open	Normal operation.	
R18	Open	Normal operation.	
R19	Open	Normal operation.	
R20	Open	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
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    AVR2:0
R32	Open	No Hazard.	AVR1:0    AVR2:0
R33	Open	Normal operation.	
R34	Open	No Hazard.	AVR1:0    AVR2:0
R35	Open	Normal operation.	
R36      (Except 05Vin)	Open	Normal operation.	
R37	Open	Normal operation.	
R38	Open	Normal operation.	
R39	Open	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
R41	Open		Normal operation.	
R42	Open		No Hazard.	AVR1:0    AVR2:0
R43	Open		Normal operation.	
R48	Open		Normal operation.	
R49	Open		Normal operation.	
R51	Open		Normal operation.	
R52	Open		Normal operation.	
R61	Open		Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
R62	Open		Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
R63	Open		Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
R64	Open		Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
R65	Open		Normal operation.	
R66	Open		Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
R71	Open		Output voltage increased. No Hazard.	AVR1:increased AVR2:increased
R72	Open		Normal operation.	
R73	Open		Normal operation.	
R74	Open		Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
R75	Open		Normal operation.	
T11	Open	1	Normal operation.	
		2	No Hazard.	AVR1:0    AVR2:0
		3	No Hazard.	AVR1:0    AVR2:0
		4	Normal operation.	
		5	Output voltage increased. No Hazard.	AVR1:0 AVR2:increased
		6	Output voltage increased. No Hazard.	AVR1:increased AVR2:0



F M E A

Component	Mode		Comment	Output Voltage (V)
T11	Open	7	Output voltage increased. No Hazard.	AVR1:0 AVR2:increased
		8	Output voltage increased. No Hazard.	AVR1:increased AVR2:0
	Short	1-2	See page 11.	
		2-3	No Hazard.	AVR1:0    AVR2:0
		3-4	External Fuse opened, No hazard.	AVR1:0    AVR2:0
		5-6	See page 11.	
		6-7	See page 11.	
		7-8	See page 11.	
TR11	Open	D	See page 10.	
		S	See page 10.	
		G	See page 10.	
	Short	D-S	See page 11.	
		S-G	No Hazard.	AVR1:0    AVR2:0
		G-D	See page 11.	
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.	





F M E A

Component	Mode		Comment	Output Voltage (V)
TR22	Short	E-B	Normal operation.	
		B-C	Normal operation.	
TR33	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0    AVR2:0
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0    AVR2:0
TR34	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR48	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0    AVR2:0
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0    AVR2:0
ZD21	Open		Normal operation.	
	Short	(Only 05Vin)	Normal operation.	
		(Except 05Vin)	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
ZD22	Open		Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
ZD22	Short	Normal operation.	



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)	
C11	Short		External Fuse opened, No hazard.	AVR1:0	AVR2:0
C22	Short		No Hazard.	AVR1:0	AVR2:0
C51	Short		No Hazard.	AVR1:0	AVR2:0
C52	Short		No Hazard.	AVR1:0	AVR2:0
C53	Short		No Hazard.	AVR1:0	AVR2:0
C54	Short		No Hazard.	AVR1:0	AVR2:0
C57	Short		No Hazard.	AVR1:0	AVR2:0
D21 (Only 05Vin)	Short		No Hazard.	AVR1:*	AVR2:*
T11	Short	1-2	No Hazard.	AVR1:0	AVR2:0
		5-6	No Hazard.	AVR1:0	AVR2:0
		6-7	No Hazard.	AVR1:0	AVR2:0
		7-8	No Hazard.	AVR1:0	AVR2:0
TR11	Short	D-S	No Hazard.	AVR1:0	AVR2:0
		G-D	No Hazard.	AVR1:0	AVR2:0