

ABNORMAL TEST RESULT

OF MODEL MHFW612□□

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.	
C12	Open	No Hazard.	AVR1:0 AVR2:0
	Short	External Fuse opened, No hazard.	AVR1:0 AVR2:0
C13	Open	Normal operation.	
	Short	No Hazard.	AVR1:0 AVR2:0
C14	Open	Normal operation.	
	Short	Normal operation.	
C21	Open	Normal operation.	
	Short	No Hazard.	AVR1:0 AVR2:0
C22	Open	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
	Short	External Fuse opened, No hazard.	AVR1:0 AVR2:0
C31	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0 AVR2:0
C32	Open	Normal operation.	
	Short	No Hazard.	AVR1:0 AVR2:0
C33	Open	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
	Short	No Hazard.	AVR1:0 AVR2:0
C34	Open	Normal operation.	
	Short	Normal operation.	
C51	Open	Normal operation.	
	Short	See page 11.	
C52	Open	Normal operation.	
	Short	See page 11.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C71	Open	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
	Short	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
C72	Open	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
	Short	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
C73	Open	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
	Short	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
C101	Open	Normal operation.	
	Short	See page 11.	
C102	Open	Normal operation.	
	Short	See page 11.	
C103	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0 AVR2:0
C111	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0 AVR2:0
C201	Open	Normal operation.	
	Short	See page 11.	
C202	Open	Normal operation.	
	Short	See page 11.	
C203	Open	Normal operation.	
	Short	See page 11.	
C204	Open	Normal operation.	
	Short	See page 11.	
C211	Open	Normal operation.	
	Short	See page 11.	



F M E A

Component	Mode		Comment	Output Voltage (V)
C212	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0 AVR2:0
C213	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0 AVR2:0
CN101	Open		External Fuse opened, No hazard.	AVR1:0 AVR2:0
CN102	Open		No Hazard.	AVR1:0 AVR2:0
CN103	Open		No Hazard.	AVR1:0 AVR2:0
CN104	Open		No Hazard.	AVR1:0 AVR2:0
CN105	Open		No Hazard.	AVR1:0 AVR2:0
CN106	Open		No Hazard.	AVR1:0 AVR2:0
CN107	Open		No Hazard.	AVR1:0 AVR2:0
D11	Open		Normal operation.	
	Short		Normal operation.	
D21	Open		Normal operation.	
	Short		No Hazard.	AVR1:0 AVR2:0
D31	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0 AVR2:0
D201	Open		No Hazard.	AVR1:0 AVR2:0
	Short		External Fuse opened, No hazard.	AVR1:0 AVR2:0
D202	Open		No Hazard.	AVR1:0 AVR2:0
	Short		External Fuse opened, No hazard.	AVR1:0 AVR2:0
IC11	Open	1	No Hazard.	AVR1:0 AVR2:0
		2	See page 11.	
		3	No Hazard.	AVR1:0 AVR2:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC11	Open	4	Normal operation.	
		5	No Hazard.	AVR1:0 AVR2:0
		6	No Hazard.	AVR1:0 AVR2:0
		7	External Fuse opened, No hazard.	AVR1:0 AVR2:0
		8	No Hazard.	AVR1:0 AVR2:0
	Short	1-2	External Fuse opened, No hazard.	AVR1:0 AVR2:0
		2-3	Normal operation.	
		3-4	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
		5-6	No Hazard.	AVR1:0 AVR2:0
		6-7	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
		7-8	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
IC12	Open	1	External Fuse opened, No hazard.	AVR1:0 AVR2:0
		2	Normal operation.	
		3	External Fuse opened, No hazard.	AVR1:0 AVR2:0
		4	Normal operation.	
		5	See page 11.	
		6	No Hazard.	AVR1:0 AVR2:0
	Short	1-2	No Hazard.	AVR1:0 AVR2:0
		2-3	No Hazard.	AVR1:0 AVR2:0
		4-5	External Fuse opened, No hazard.	AVR1:0 AVR2:0
		5-6	No Hazard.	AVR1:0 AVR2:0
IC71	Open	1	No Hazard.	AVR1:0 AVR2:0
		3	No Hazard.	AVR1:0 AVR2:0
		6	No Hazard.	AVR1:0 AVR2:0

F M E A

Component	Mode		Comment	Output Voltage (V)
L101	Open		No Hazard.	AVR1:0 AVR2:0
	Short		Normal operation.	
L201	Open		No Hazard.	AVR1:0 AVR2:0
	Short		Normal operation.	
L202	Open		No Hazard.	AVR1:0 AVR2:0
	Short		Normal operation.	
PC11	Open	A, K	No Hazard.	AVR1:0 AVR2:0
		C, E	No Hazard.	AVR1:0 AVR2:0
	Short	A-K	No Hazard.	AVR1:0 AVR2:0
		C-E	No Hazard.	AVR1:0 AVR2:0
PTH31	Open		No Hazard.	AVR1:0 AVR2:0
	Short		Normal operation.	
R11	Open		No Hazard.	AVR1:0 AVR2:0
R12	Open		No Hazard.	AVR1:0 AVR2:0
R13	Open		Normal operation.	
R14	Open		External Fuse opened, No hazard.	AVR1:0 AVR2:0
R15	Open		External Fuse opened, No hazard.	AVR1:0 AVR2:0
R16	Open		External Fuse opened, No hazard.	AVR1:0 AVR2:0
R17	Open		Normal operation.	
R18	Open		No Hazard.	AVR1:0 AVR2:0
R21	Open		Normal operation.	
R22	Open		Normal operation.	
R23	Open		Normal operation.	
R24	Open		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R25	Open		Normal operation.	
R26	Open		Normal operation.	
R27	Open		Normal operation.	
R28	Open		No Hazard.	AVR1:0 AVR2:0
R31	Open		External Fuse opened, No hazard.	AVR1:0 AVR2:0
R33	Open		Normal operation.	
R41	Open		Normal operation.	
R42	Open		No Hazard.	AVR1:0 AVR2:0
R71	Open		No Hazard.	AVR1:0 AVR2:0
R72	Open		No Hazard.	AVR1:0 AVR2:0
R73	Open		Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
R74	Open		Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
R75	Open		Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
R76	Open		Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
R77	Open		Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
R82	Open		Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
R101	Open		Normal operation.	
R111	Open		Normal operation.	
R113	Open		Normal operation.	
SS41	Open	1	No Hazard.	AVR1:0 AVR2:0
		2	Normal operation.	
		3	No Hazard.	AVR1:0 AVR2:0
	Short	1-2	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
		2-3	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
SS41	Short	3-1	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
TR12	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
TR13	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	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
TR14	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
TR21	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0 AVR2:0
		E-B	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR21	Short	B-C	Normal operation.	
TR101	Open	D	See page 11.	
		S	See page 11.	
		G	See page 11.	
	Short	D-S	See page 11.	
		S-G	See page 11.	
		G-D	See page 11.	
TR111	Open	D	Normal operation.	
		S	Normal operation.	
		G	External Fuse opened, No hazard.	AVR1:0 AVR2:0
	Short	D-S	External Fuse opened, No hazard.	AVR1:0 AVR2:0
		S-G	Normal operation.	
		G-D	External Fuse opened, No hazard.	AVR1:0 AVR2:0
ZD11	Open		Normal operation.	
	Short		Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
ZD21	Open		External Fuse opened, No hazard.	AVR1:0 AVR2:0
	Short		No Hazard.	AVR1:0 AVR2:0
ZD23	Open		Normal operation.	
	Short		Normal operation.	
ZD24	Open		Normal operation.	
	Short		No Hazard.	AVR1:0 AVR2:0
ZD71	Open		Normal operation.	
	Short		Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased
ZD72	Open		Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
ZD72	Short	Output voltage decreased. No Hazard.	AVR1:decreased AVR2:decreased



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C11	Short		External Fuse opened, No hazard.	AVR1:0 AVR2:0
C51	Short		No Hazard.	AVR1:0 AVR2:0
C52	Short		No Hazard.	AVR1:0 AVR2:0
C101	Short		External Fuse opened, No hazard.	AVR1:0 AVR2:0
C102	Short		External Fuse opened, No hazard.	AVR1:0 AVR2:0
C201	Short		No Hazard.	AVR1:0 AVR2:0
C202	Short		No Hazard.	AVR1:0 AVR2:0
C203	Short		No Hazard.	AVR1:0 AVR2:0
C204	Short		No Hazard.	AVR1:0 AVR2:0
C211	Short		No Hazard.	AVR1:0 AVR2:0
IC11	Open	2	No Hazard.	AVR1:0 AVR2:0
IC12	Open	5	No Hazard.	AVR1:0 AVR2:0
TR101	Open	D	No Hazard.	AVR1:0 AVR2:0
		S	No Hazard.	AVR1:0 AVR2:0
		G	External Fuse opened, No hazard.	AVR1:0 AVR2:0
	Short	D-S	External Fuse opened, No hazard.	AVR1:0 AVR2:0
		S-G	No Hazard.	AVR1:0 AVR2:0
		G-D	External Fuse opened, No hazard.	AVR1:0 AVR2:0