

## ABNORMAL TEST RESULT

OF MODEL MGS648□□

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/ 9 ~ 8/ 9)

( Abnormal Test Result: 9/ 9 ~ 9/ 9)

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	No Hazard.	AVR1:0
C12	Open	No Hazard.	AVR1:0
	Short	External Fuse opened, No hazard.	AVR1:0
C13	Open	Normal operation.	
	Short	Normal operation.	
C21	Open	Normal operation.	
	Short	Normal operation.	
C22	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	External Fuse opened, No hazard.	AVR1:0
C31	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C32	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C33	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C34	Open	Normal operation.	
	Short	Normal operation.	
C41	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C42	Open	Normal operation.	
	Short	See 9 Page.	
C51	Open	Normal operation.	
	Short	See 9 Page.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
C52	Open	Normal operation.	
	Short	See 9 Page.	
C53	Open	Normal operation.	
	Short	See 9 Page.	
C71	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C72	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C101	Open	Normal operation.	
	Short	See 9 Page.	
C102	Open	Normal operation.	
	Short	See 9 Page.	
C121	Open	Normal operation.	
	Short	Normal operation.	
C122	Open	Normal operation.	
	Short	No Hazard.	
C201 (Only 12)	Open	Normal operation.	
	Short	See 9 Page.	
C211	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
D11	Open	Normal operation.	
	Short	Normal operation.	
D21	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
D31	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0
D201	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0
D202	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0
IC11	Open	1	No Hazard.	AVR1:0
		2	See 9 Page.	
		3	No Hazard.	AVR1:0
		4	Normal operation.	
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	External Fuse opened, No hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	External Fuse opened, No hazard.	AVR1:0
		2-3	Normal operation.	
		3-4	Output voltage decreased. No hazard.	AVR1:decreased
		5-6	No Hazard.	AVR1:0
		6-7	Output voltage decreased. No hazard.	AVR1:decreased
		7-8	Output voltage decreased. No hazard.	AVR1:decreased
IC12	Open	1	External Fuse opened, No hazard.	AVR1:0
		2	Normal operation.	
		3	External Fuse opened, No hazard.	AVR1:0
		4	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC12	Open	5	See 9 Page.	
		6	No Hazard.	AVR1:0
	Short	1-2	External Fuse opened, No hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		4-5	External Fuse opened, No hazard.	AVR1:0
		5-6	No Hazard.	AVR1:0
IC71	Open	1	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
L11	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L51	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
PC11	Open	A, K	No Hazard.	AVR1:0
		C, E	No Hazard.	AVR1:0
	Short	A-K	No Hazard.	AVR1:0
		C-E	No Hazard.	AVR1:0
PTH31	Open		Normal operation.	
	Short		Normal operation.	
R11	Open		No Hazard.	AVR1:0
R12	Open		No Hazard.	AVR1:0
R13	Open		Normal operation.	
R14	Open		External Fuse opened, No hazard.	AVR1:0
R15	Open		External Fuse opened, No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
R16	Open		Normal operation.	
R17	Open		No Hazard.	AVR1:0
R18	Open		Normal operation.	
R19	Open		Normal operation.	
R21	Open		Normal operation.	
R22	Open		Normal operation.	
R24	Open		No Hazard.	AVR1:0
R31	Open		External Fuse opened, No hazard.	AVR1:0
R33	Open		Normal operation.	
R41	Open		Normal operation.	
R42	Open		No Hazard.	AVR1:0
R43	Open		Normal operation.	
R52	Open		Normal operation.	
R71	Open		No Hazard.	AVR1:0
R72	Open		No Hazard.	AVR1:0
R73	Open		Output voltage decreased. No hazard.	AVR1:decreased
R74	Open		No Hazard.	AVR1:0
R75	Open		Output voltage decreased. No hazard.	AVR1:decreased
R76	Open		Output voltage decreased. No hazard.	AVR1:decreased
R77	Open		Normal operation.	
R111	Open		No Hazard.	
R121	Open		No Hazard.	
R122	Open		Normal operation.	
SS41	Open	1	No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
SS41	Open	2	Normal operation.	
		3	No Hazard.	AVR1:0
	Short	1-2	Output voltage decreased. No hazard.	AVR1:decreased
		1-3	Output voltage decreased. No hazard.	AVR1:decreased
		2-3	Normal operation.	
TR11	Open	D	See 9 Page.	
		S	See 9 Page.	
		G	See 9 Page.	
	Short	D-S	See 9 Page.	
		S-G	See 9 Page.	
		G-D	See 9 Page.	
TR12	Open	1	Normal operation.	
		2	Normal operation.	
		3	Normal operation.	
		4	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		4-5	Normal operation.	
		5-6	External Fuse opened, No hazard.	AVR1:0
TR13	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR13	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	Output voltage decreased. No hazard.	AVR1:decreased
TR101	Open	D	Normal operation.	
		S	Normal operation.	
		G	No Hazard.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	No Hazard.	
ZD11	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
ZD21	Open		External Fuse opened, No hazard.	AVR1:0
	Short		Normal operation.	

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C42	Short		External Fuse opened, No hazard.	AVR1:0
C51	Short		No Hazard.	AVR1:0
C52	Short		No Hazard.	AVR1:0
C53	Short		No Hazard.	AVR1:0
C101	Short		External Fuse opened, No hazard.	AVR1:0
C102	Short		External Fuse opened, No hazard.	AVR1:0
C201	Short		No Hazard.	AVR1:0
IC11	Open	2	External Fuse opened, No hazard.	AVR1:0
IC12	Open	5	External Fuse opened, No hazard.	AVR1:0
TR11	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	External Fuse opened, No hazard.	AVR1:0
	Short	D-S	External Fuse opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	External Fuse opened, No hazard.	AVR1:0