

ABNORMAL TEST RESULT

OF MODEL MGS1012□□

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	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 10 Page.	
C51	Open	Normal operation.	
	Short	See 10 Page.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C52	Open	Normal operation.	
	Short	See 10 Page.	
C53	Open	Normal operation.	
	Short	See 10 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 10 Page.	
C102	Open	Normal operation.	
	Short	See 10 Page.	
C111	Open	Normal operation.	
	Short	See 8 Page.	
C112	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C201	Open	Normal operation.	
	Short	See 10 Page.	
C211	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C221	Open	Normal operation.	
	Short	No Hazard.	
D11	Open	Normal operation.	
	Short	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)	
D21	Open	Normal operation.		
	Short	External Fuse opened, No hazard.	AVR1:0	
D31	Open	Normal operation.		
	Short	External Fuse opened, No hazard.	AVR1:0	
D211	Open	See 10 Page.		
	Short	External Fuse opened, No hazard.	AVR1:0	
D221	Open	Normal operation.		
	Short	Normal operation.		
D231 (Only 12, 15)	Open	Normal operation.		
	Short	Normal operation.		
IC11	Open	1	No Hazard.	AVR1:0
		2	See 10 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



F M E A

Component	Mode		Comment	Output Voltage (V)
IC12	Open	1	External Fuse opened, No hazard.	AVR1:0
		2	Normal operation.	
		3	External Fuse opened, No hazard.	AVR1:0
		4	Normal operation.	
		5	See 10 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.
3			No Hazard.	AVR1:0
6			No Hazard.	AVR1:0
IC201	Open	1	See 10 Page.	
		2	Normal operation.	
		3	See 10 Page.	
		4	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	
		7	See 10 Page.	
		8	Normal operation.	
	Short	1-2	See 10 Page.	
		2-3	Normal operation.	
		3-4	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Short	5-6	External Fuse opened, No hazard.	AVR1:0
		6-7	External Fuse opened, No hazard.	AVR1:0
		7-8	No Hazard.	
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
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.	



F M E A

Component	Mode	Comment	Output Voltage (V)	
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.		
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	Normal operation.		
R112	Open	Normal operation.		
R211	Open	See 10 Page.		
R212 (Only 05, 3R3)	Open	Normal operation.		
R213	Open	External Fuse opened, No hazard.	AVR1:0	
R221	Open	See 10 Page.		
R222	Open	Normal operation.		
SS41	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	
		3	No Hazard.	AVR1:0
	Short	1-2	Output voltage decreased. No hazard.	AVR1:decreased



F M E A

Component	Mode		Comment	Output Voltage (V)
SS41	Short	1-3	Output voltage decreased. No hazard.	AVR1:decreased
		2-3	Normal operation.	
TR11	Open	D	See 10 Page.	
		S	See 10 Page.	
		G	See 10 Page.	
	Short	D-S	See 10 Page.	
		S-G	See 10 Page.	
		G-D	See 10 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.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	Output voltage decreased. No hazard.	AVR1:decreased



F M E A

Component	Mode		Comment	Output Voltage (V)
TR101	Open	D	Normal operation.	
		S	Normal operation.	
		G	No Hazard.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	No Hazard.	
TR201	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	See 8 Page.	
	Short	D-S	See 8 Page.	
		S-G	No Hazard.	
		G-D	External Fuse opened, No hazard.	AVR1:0
ZD11	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
ZD21	Open		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
D211	Open		No Hazard.	AVR1:*
IC11	Open	2	External Fuse opened, No hazard.	AVR1:0
IC12	Open	5	External Fuse opened, No hazard.	AVR1:0
IC201	Open	1	No Hazard.	AVR1:*
		3	External Fuse opened, No hazard.	AVR1:0
		7	Output voltage decreased. No hazard.	AVR1:decreased
	Short	1-2	No Hazard.	AVR1:*
R211	Open		No Hazard.	AVR1:*
R221	Open		No Hazard.	AVR1:*
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.	