

## ABNORMAL TEST RESULT

## OF MODEL PMA100F

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 : 2/20 ~ 18/20)

( Abnormal Test Result: 19/20 ~ 20/20)

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)
C101	Open	Normal operation.	
	Short	Fuse opened, No hazard.	AVR1:0
C102	Open	Normal operation.	
	Short	Fuse opened, No hazard.	AVR1:0
C103	Open	Normal operation.	
	Short	Fuse opened, No hazard.	AVR1:0
C104	Open	Normal operation.	
	Short	Fuse opened, No hazard.	AVR1:0
C108	Open	Normal operation.	
	Short	Normal operation.	
C109	Open	See 19 Page.	
	Short	See 19 Page.	
C110	Open	See 19 Page.	
	Short	See 19 Page.	
C111	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C112	Open	Normal operation.	
	Short	Normal operation.	
C115	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C116	Open	Normal operation.	
	Short	Normal operation.	
C118	Open	Normal operation.	
	Short	Fuse opened, No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C119	Open	Normal operation.	
	Short	Fuse opened, No hazard.	AVR1:0
C121	Open	Normal operation. ONLY-24, -48	
	Short	Normal operation. ONLY-24, -48	
C122	Open	Normal operation. ONLY-24, -48	
	Short	Normal operation. ONLY-24, -48	
C129	Open	Normal operation.	
	Short	Normal operation.	
C201	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C202	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C203	Open	No Hazard.	AVR1:0
	Short	Normal operation.	
C204	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C205	Open	Normal operation.	
	Short	Normal operation.	
C206	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Normal operation.	
C207	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Normal operation.	
C208	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C209	Open	Normal operation.	
	Short	Normal operation.	
C210	Open	Normal operation. ONLY-12	
	Short	No Hazard. ONLY-12	AVR1:0
C212	Open	Normal operation. ONLY-3R3, -5	
	Short	No Hazard. ONLY-3R3, -5	AVR1:0
C221	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C222	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C501	Open	Normal operation.	
	Short	Normal operation.	
C502	Open	Normal operation.	
	Short	Normal operation.	
C503	Open	Normal operation.	
	Short	Normal operation.	
C504	Open	Normal operation.	
	Short	Normal operation.	
C505	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C506	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C507	Open	Normal operation. EXCEPT-24, -48	
	Short	No Hazard. EXCEPT-24, -48	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C508	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C512	Open	Normal operation. ONLY-24, -48	
	Short	Normal operation. ONLY-24, -48	
C513	Open	Normal operation. ONLY-3R3	
	Short	Output voltage decreased.No hazard. ONLY-3R3	AVR1:decreased
C514	Open	Normal operation. ONLY-48	
	Short	No Hazard. ONLY-48	AVR1:0
C519	Open	Normal operation. ONLY-3R3, -5	
	Short	No Hazard. ONLY-3R3, -5	AVR1:0
C551	Open	See 19 Page.	
	Short	Normal operation. ONLY-3R3, -5	
D101	Open	Normal operation.	
	Short	Normal operation.	
D103	Open	See 19 Page.	
	Short	See 19 Page.	
D104	Open	See 19 Page.	
	Short	See 19 Page.	
D105	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
D106	Open	See 19 Page.	
	Short	See 19 Page.	
D107	Open	Normal operation.	
	Short	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
D108	Open		Normal operation.	
	Short		Normal operation.	
D109	Open		Normal operation.	
	Short		Output voltage decreased.No hazard.	AVR1:decreased
D110	Open		Normal operation.	
	Short		Output voltage decreased.No hazard.	AVR1:decreased
D201	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
D202	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
D203	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D204	Open		Normal operation.	
	Short		Output voltage decreased.No hazard.	AVR1:decreased
D551	Open		Normal operation.	
	Short		See 19 Page.	
IC101	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	
		3	Normal operation.	
		4	Normal operation.	
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC101	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		3-4	Normal operation.	
		5-6	No Hazard.	AVR1:0
		6-7	No Hazard.	AVR1:0
		7-8	Fuse opened, No hazard.	AVR1:0
IC201	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	Fuse opened, No hazard.	AVR1:0
		4	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	
		7	Normal operation.	
		8	Normal operation.	
		9	Normal operation.	
		10	No Hazard.	AVR1:0
		11	No Hazard.	AVR1:0
		12	No Hazard.	AVR1:0
		13	Output voltage decreased. No hazard.	AVR1:decreased
		14	Normal operation.	
		15	Normal operation.	
		16	Normal operation.	
		17	No Hazard.	AVR1:0
		18	Output voltage decreased. No hazard.	AVR1:decreased

F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	19	Output voltage decreased.No hazard.	AVR1:decreased
		20	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	
		2-3	No Hazard.	AVR1:0
		3-4	Normal operation.	
		4-5	Normal operation.	
		5-6	Normal operation.	
		6-7	Normal operation.	
		7-8	Normal operation.	
		8-9	Normal operation.	
		9-10	No Hazard.	AVR1:0
		11-12	No Hazard.	AVR1:0
		12-13	No Hazard.	AVR1:0
		13-14	Normal operation.	
		14-15	Normal operation.	
		15-16	Normal operation.	
		16-17	Normal operation.	
		17-18	Normal operation.	
		18-19	Normal operation.	
		19-20	No Hazard.	AVR1:0
IC501	Open	K	No Hazard.	AVR1:0
		A	No Hazard.	AVR1:0
		R	No Hazard.	AVR1:0
	Short	A-K	Output voltage decreased.No hazard.	AVR1:decreased



F M E A

Component	Mode		Comment	Output Voltage (V)
IC501	Short	K-R	Output voltage decreased.No hazard.	AVR1:decreased
		R-A	No Hazard.	AVR1:0
J1	Open		Fuse opened, No hazard.	AVR1:0
J2	Open		No Hazard.	AVR1:0
J3	Open		No Hazard.	AVR1:0
J101	Open		Fuse opened, No hazard.	AVR1:0
J102	Open		Normal operation.	
J106	Open		See 19 Page.	
J201	Open		No Hazard.	AVR1:0
J202	Open		Normal operation.	
J203	Open		Normal operation.	
J204	Open		Normal operation.	
J205	Open		Normal operation.	
J206	Open		No Hazard.	AVR1:0
J207	Open		No Hazard.	AVR1:0
J501	Open		Normal operation. EXCEPT-24, -48	
J502	Open		No Hazard. EXCEPT-48	AVR1:0
J505	Open		Normal operation.	
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L102	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L103	Open	6, 11	No Hazard.	AVR1:0
		7, 8	See 19 Page.	

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Component	Mode		Comment	Output Voltage (V)
L103	Open	7, 9	No Hazard.	AVR1:0
	Short	6-11	Fuse opened, No hazard.	AVR1:0
		7-8	Fuse opened, No hazard.	AVR1:0
		7-9	Fuse opened, No hazard.	AVR1:0
L104	Open		Fuse opened, No hazard.	AVR1:0
	Short		Normal operation.	
L501	Open		Normal operation. EXCEPT-3R3, -5	
L502	Open		Normal operation. EXCEPT-3R3, -5	
L503	Open		Normal operation. EXCEPT-3R3, -5	
L504	Open		Normal operation. EXCEPT-3R3, -5	
L507	Open		Fuse opened, No hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
LED501	Open		Normal operation.	
	Short		Normal operation.	
PC201	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
PC202	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	
		C-E	No Hazard.	AVR1:0
SS101	Open		No Hazard.	AVR1:0
	Short		Fuse opened, No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
SS103	Open	Cathode	Fuse opened, No hazard.	AVR1:0
		Alternative	See 19 Page.	
	Short		Fuse opened, No hazard.	AVR1:0
SS501	Open	Cathode	Fuse opened, No hazard. EXCEPT-3R3, -5	AVR1:0
		Alternative	See 19 Page.	
	Short		No Hazard. EXCEPT-3R3, -5	AVR1:0
SS502	Open	Cathode	Fuse opened, No hazard. EXCEPT-3R3, -5	AVR1:0
		Alternative	See 19 Page.	
	Short		No Hazard. EXCEPT-3R3, -5	AVR1:0
T201	Open	1, 6	See 19 Page.	
		2, 3, 4, 5	Fuse opened, No hazard.	AVR1:0
		7, 8	No Hazard.	AVR1:0
		10, 12	No Hazard.	AVR1:0
	Short	1-6	Fuse opened, No hazard.	AVR1:0
		2, 3-4, 5	Fuse opened, No hazard.	AVR1:0
		7-8	Fuse opened, No hazard.	AVR1:0
		10-12	Fuse opened, No hazard.	AVR1:0
TH101	Open		No Hazard.	AVR1:0
TR101	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	No Hazard.	AVR1:0
		S-G	Normal operation.	
		G-D	No Hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
TR102	Open	D	See 19 Page.	
		S	See 19 Page.	
		G	See 19 Page.	
	Short	D-S	See 19 Page.	
		S-G	See 19 Page.	
		G-D	See 19 Page.	
TR103	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR104	Open	C	Fuse opened, No hazard.	AVR1:0
		E	Fuse opened, No hazard.	AVR1:0
		B	Fuse opened, No hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	Fuse opened, No hazard.	AVR1:0
		B-C	No Hazard.	AVR1:0
TR105	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	Normal operation.	
		E-B	No Hazard.	AVR1:0
		B-C	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR201	Open	D	See 20 Page.	
		S	See 20 Page.	
		G	See 20 Page.	
	Short	D-S	See 20 Page.	
		S-G	See 20 Page.	
		G-D	See 20 Page.	
TR501	Open	D	Fuse opened, No hazard. ONLY-3R3, -5	AVR1:0
		S	Fuse opened, No hazard. ONLY-3R3, -5	AVR1:0
		G	See 20 Page.	
	Short	D-S	No Hazard. ONLY-3R3, -5	AVR1:0
		S-G	See 20 Page.	
		G-D	See 20 Page.	
TR502	Open	D	No Hazard. ONLY-3R3, -5	AVR1:0
		S	No Hazard. ONLY-3R3, -5	AVR1:0
		G	See 20 Page.	
	Short	D-S	ONLY-3R3, -5No Hazard.	AVR1:0
		S-G	See 20 Page.	
		G-D	See 20 Page.	
VR501	Open	brush	Output voltage decreased.No hazard.	AVR1:decreased
			Output voltage decreased.No hazard.	AVR1:decreased
	Short		No Hazard.	AVR1:0
ZD101	Open		Normal operation.	
	Short		Normal operation.	
ZD121	Open		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
ZD121	Short	Normal operation.	
ZD501	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
ZD502	Open	Normal operation. ONLY-24, -48	
	Short	No Hazard. ONLY-24, -48	AVR1:0
ZD503	Open	No Hazard. ONLY-48	AVR1:0
	Short	Normal operation. ONLY-48	
ZD551	Open	See 20 Page.	
	Short	See 20 Page.	
R101	Open	Normal operation.	
R102	Open	Normal operation.	
R103	Open	Normal operation.	
R104	Open	Normal operation.	
R105	Open	Normal operation.	
R106	Open	Output voltage decreased.No hazard.	AVR1:decreased
R107	Open	Normal operation.	
R108	Open	Normal operation.	
R109	Open	Normal operation.	
R110	Open	Normal operation.	
R111	Open	Normal operation.	
R112	Open	Normal operation.	
R113	Open	Normal operation.	
R114	Open	Normal operation.	
R115	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R116	Open	Normal operation.	
R117	Open	See 20 Page.	
R118	Open	Normal operation.	
R119	Open	Fuse opened, No hazard.	AVR1:0
R120	Open	Output voltage decreased. No hazard.	AVR1:decreased
R121	Open	Output voltage decreased. No hazard.	AVR1:decreased
R123	Open	Normal operation.	
R124	Open	No Hazard.	AVR1:0
R125	Open	No Hazard.	AVR1:0
R126	Open	No Hazard.	AVR1:0
R127	Open	No Hazard.	AVR1:0
R128	Open	No Hazard.	AVR1:0
R129	Open	No Hazard.	AVR1:0
R130	Open	No Hazard.	AVR1:0
R131	Open	Normal operation.	
R132	Open	Normal operation.	
R133	Open	Normal operation.	
R134	Open	No Hazard.	AVR1:0
R136	Open	Normal operation.	
R137	Open	Normal operation.	
R139	Open	Normal operation.	
R151	Open	Normal operation.	
R152	Open	No Hazard.	AVR1:0
R153	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R201	Open	Normal operation.	
R202	Open	Normal operation.	
R203	Open	Normal operation.	
R204	Open	Normal operation.	
R205	Open	No Hazard.	AVR1:0
R206	Open	Normal operation.	
R207	Open	No Hazard.	AVR1:0
R208	Open	Output voltage decreased.No hazard.	AVR1:decreased
R209	Open	No Hazard.	AVR1:0
R210	Open	Fuse opened, No hazard.	AVR1:0
R211	Open	Normal operation.	
R212	Open	Normal operation.	
R213	Open	Output voltage decreased.No hazard.	AVR1:decreased
R214	Open	Normal operation.	
R215	Open	Normal operation.	
R216	Open	Output voltage decreased.No hazard.	AVR1:decreased
R218	Open	Normal operation.	
R220	Open	No Hazard.	AVR1:0
R221	Open	Normal operation. ONLY-3R3, -5	
R222	Open	Fuse opened, No hazard.	AVR1:0
R501	Open	Normal operation.	
R502	Open	Normal operation.	
R503	Open	No Hazard.	AVR1:0
R504	Open	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R505	Open	Output voltage decreased.No hazard.	AVR1:decreased
R506	Open	No Hazard.	AVR1:0
R507	Open	Output voltage decreased.No hazard.	AVR1:decreased
R508	Open	No Hazard. ONLY-3R3	AVR1:0
R509	Open	No Hazard.	AVR1:0
R510	Open	Normal operation.	
R511	Open	Normal operation.	
R512	Open	Normal operation.	
R513	Open	Normal operation.	
R514	Open	Normal operation.	
R515	Open	Normal operation.	
R516	Open	Normal operation. ONLY-48	
R517	Open	Normal operation.	
R518	Open	Normal operation.	
R521	Open	Normal operation.	
R522	Open	Normal operation.	
R523	Open	Normal operation.	
R524	Open	Normal operation.	
R525	Open	Normal operation.	
R526	Open	Normal operation.	
R527	Open	Normal operation.	
R528	Open	Normal operation.	
R529	Open	Normal operation.	
R530	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R531	Open	Normal operation. EXCEPT-3R3	
R532	Open	Normal operation. EXCEPT-3R3, -48	
R533	Open	Normal operation. ONLY-5, -12	
R534	Open	Normal operation. ONLY-5, -12	
R535	Open	Normal operation. ONLY-5, -12	
R536	Open	Normal operation. ONLY-5, -12	
R551	Open	Normal operation. ONLY-3R3, -5	
R552	Open	Normal operation. ONLY-3R3, -5	
R554	Open	Normal operation. ONLY-3R3, -5	
R555	Open	Normal operation. ONLY-3R3, -5	
R556	Open	Normal operation. ONLY-3R3, -5	
R563	Open	Normal operation. ONLY-3R3, -5	
R564	Open	Normal operation.	
R565	Open	Normal operation.	
¥102	Open	Fuse opened, No hazard.	AVR1:0
¥103	Open	Fuse opened, No hazard.	AVR1:0
¥104	Open	Fuse opened, No hazard.	AVR1:0
¥108 (AF)	Open	No Hazard.	AVR1:0

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C109	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
C110	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
C551	Open		Normal operation. ONLY-3R3, -5	
D103	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D104	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
D106	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
D551	Short		Normal operation. ONLY-3R3, -5	
J106	Open		Fuse opened, No hazard.	AVR1:0
L103	Open	7, 8	No Hazard.	AVR1:0
SS103	Open	Alternative	Normal operation.	
SS501	Open	Alternative	Normal operation. EXCEPT-3R3, -5	
SS502	Open	Alternative	Normal operation. EXCEPT-3R3, -5	
T201	Open	1, 6	No Hazard.	AVR1:0
TR102	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	No Hazard.	AVR1:0
	Short	D-S	Fuse opened, No hazard.	AVR1:0
		S-G	Fuse opened, No hazard.	AVR1:0
		G-D	Fuse opened, No hazard.	AVR1:0

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR201	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	No Hazard.	AVR1:0
	Short	D-S	Fuse opened, No hazard.	AVR1:0
		S-G	Fuse opened, No hazard.	AVR1:0
		G-D	Fuse opened, No hazard.	AVR1:0
TR501	Open	G	Normal operation. ONLY-3R3, -5	
	Short	S-G	Normal operation. ONLY-3R3, -5	
		G-D	No Hazard. ONLY-3R3, -5	AVR1:0
TR502	Open	G	Normal operation. ONLY-3R3, -5	
	Short	S-G	No Hazard. ONLY-3R3, -5	AVR1:0
		G-D	No Hazard. ONLY-3R3, -5	AVR1:0
ZD551	Open		Normal operation. ONLY-3R3, -5	
	Short		Normal operation. ONLY-3R3, -5	
R117	Open		No Hazard.	AVR1:0