



# ABNORMAL TEST RESULT

OF MODEL PLA50F

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 : 2/15 ~ 14/15)

( Abnormal Test Result: 15/15 ~ 15/15)

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	F101 opened, No hazard.	AVR1:0
C102	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0
C103	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0
C106	Open	Normal operation.	
	Short	Normal operation.	
C107	Open	Normal operation.	
	Short	Normal operation.	
C108	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C109	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C110	Open	Normal operation.	
	Short	Normal operation.	
C111	Open	Normal operation.	
	Short	Normal operation.	
C112	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C113	Open	F101 opened, No hazard.	AVR1:0
	Short	F101 opened, No hazard.	AVR1:0
C114	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
C120	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C201	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C202	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C203	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C204	Open	Normal operation.	
	Short	Normal operation.	
C205	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C206	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C208	Open	Normal operation.	
	Short	Normal operation.	
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.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
C505	Open	Normal operation.	
	Short	Normal operation.	
C506	Open	Normal operation.	
	Short	Normal operation.	
C507	Open	Output voltage decreased.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C601	Open	Output voltage decreased.	AVR1:decreased
	Short	Output voltage decreased.	AVR1:decreased
D101	Open	Normal operation.	
	Short	Normal operation.	
D102	Open	Normal operation.	
	Short	Normal operation.	
D103	Open	Normal operation.	
	Short	Normal operation.	
D104	Open	Normal operation.	
	Short	Normal operation.	
D105	Open	Normal operation.	
	Short	Normal operation.	
D106	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
D107	Open	Normal operation.	
	Short	Normal operation.	
D108	Open	No Hazard.	AVR1:0
	Short	F101 opened, No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
D109	Open		Normal operation.	
	Short		F101 opened, No hazard.	AVR1:0
D111	Open		Normal operation.	
	Short		Normal operation.	
D201	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
D202	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Normal operation.	
D203	Open		Normal operation.	
	Short		Normal operation.	
D204	Open		Normal operation.	
	Short		Normal operation.	
D205	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D206	Open		Normal operation.	
	Short		F101 opened, No hazard.	AVR1:0
IC101	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	
		3	No Hazard.	AVR1:0
		4	Normal operation.	
		5	Normal operation.	
		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	Normal operation.	
		2-3	No Hazard.	AVR1:0
		3-4	Normal operation.	
		5-6	Normal operation.	
		6-7	No Hazard.	AVR1:0
		7-8	F101 opened, No hazard.	AVR1:0
IC201	Open	1	Normal operation.	
		2	No Hazard.	AVR1:0
		3	Output voltage decreased. No hazard.	AVR1:decreased
		4	F101 opened, No hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation.	
		8	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Output voltage decreased. No hazard.	AVR1:decreased
		3-4	No Hazard.	AVR1:0
		5-6	F101 opened, No hazard.	AVR1:0
		6-7	Normal operation.	
		7-8	Normal operation.	
IC601	Open	K	No Hazard.	AVR1:0
		A	No Hazard.	AVR1:0
		R	No Hazard.	AVR1:0
	Short	A-K	Output voltage decreased.	AVR1:decreased

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC601	Short	K-R	Output voltage decreased.	AVR1:decreased
		R-A	No Hazard.	AVR1:0
J101	Open		No Hazard.	AVR1:0
J102	Open		Normal operation.	
J103	Open		Normal operation.	
J104	Open		No Hazard.	AVR1:0
J105	Open		No Hazard.	AVR1:0
J201	Open		Output voltage decreased. No hazard.	AVR1:decreased
J501	Open		No Hazard.	AVR1:0
J502	Open		No Hazard.	AVR1:0
J503	Open		No Hazard.	AVR1:0
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L102	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L103	Open	2, 4	No Hazard.	AVR1:0
		6, 7	Normal operation.	
	Short	2-4	F101 opened, No hazard.	AVR1:0
		6-7	Normal operation.	
L201	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Normal operation.	
L501	Open		F101 opened, No hazard.	AVR1:0
	Short		Output voltage decreased.	AVR1:decreased
LED501	Open		Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
LED501	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
SK101	Open		Normal operation.	
	Short		F101 opened, No hazard.	AVR1:0
SS101	Open		Normal operation.	
	Short		See 15 Page.	AVR1:0
SS501	Open	Cathode	F101 opened, No hazard.	AVR1:0
		Alternative	Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
T101	Open	1, 5	No Hazard.	AVR1:0
		3, 4	Output voltage decreased. No hazard.	AVR1:decreased
		7, 8, 9, 10	Normal operation.	
	Short	1-5	No Hazard.	AVR1:0
		3-4	Output voltage decreased. No hazard.	AVR1:decreased
		7, 8-9, 10	Output voltage decreased. No hazard.	AVR1:decreased
TH101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR101	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR102	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR103	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR104	Open	D	See 15 Page.	AVR1:0
		S	See 15 Page.	AVR1:0
		G	See 15 Page.	AVR1:0
	Short	D-S	See 15 Page.	AVR1:0
		S-G	See 15 Page.	AVR1:0
		G-D	See 15 Page.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR201	Open	D	See 15 Page.	AVR1:0
		S	See 15 Page.	AVR1:0
		G	See 15 Page.	AVR1:0
	Short	D-S	See 15 Page.	AVR1:0
		S-G	See 15 Page.	AVR1:0
		G-D	See 15 Page.	AVR1:0
TR202	Open	C	Normal operation.	
		E	Output voltage decreased. No hazard.	AVR1:decreased
		B	Output voltage decreased. No hazard.	AVR1:decreased
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR203	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Output voltage decreased. No hazard.	AVR1:decreased
		E-B	Normal operation.	
		B-C	Output voltage decreased. No hazard.	AVR1:decreased
TR204	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		S-G	Output voltage decreased. No hazard.	AVR1:decreased
		G-D	Output voltage decreased. No hazard.	AVR1:decreased

## F M E A

Component	Mode		Comment	Output Voltage (V)
VR601	Open	brush	Output voltage decreased.	AVR1:decreased
			Output voltage decreased.	AVR1:decreased
	Short		Output voltage increased.	AVR1:increased
ZD101	Open		Normal operation.	
	Short		Normal operation.	
ZD103	Open		Normal operation.	
	Short		Normal operation.	
ZD201	Open		Normal operation.	
	Short		Normal operation.	
ZD202	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
ZD203	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
ZD601	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
ZD602	Open	Only -24	Normal operation.	
	Short	Only -24	No Hazard.	AVR1:0
R101	Open		Normal operation.	
R102	Open		Normal operation.	
R103	Open		Normal operation.	
R104	Open		Normal operation.	
R105	Open		Normal operation.	
R106	Open		Normal operation.	
R107	Open		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
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.	
R116	Open	Normal operation.	
R117	Open	Normal operation.	
R118	Open	Normal operation.	
R120	Open	No Hazard.	AVR1:0
R122	Open	Normal operation.	
R124	Open	No Hazard.	AVR1:0
R125	Open	No Hazard.	AVR1:0
R126	Open	No Hazard.	AVR1:0
R127	Open	Normal operation.	
R128	Open	No Hazard.	AVR1:0
R129	Open	No Hazard.	AVR1:0
R130	Open	No Hazard.	AVR1:0
R131	Open	No Hazard.	AVR1:0
R132	Open	No Hazard.	AVR1:0
R133	Open	Normal operation.	
R134	Open	Normal operation.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
R135	Open	Normal operation.	
R150	Open	Normal operation.	
R151	Open	Normal operation.	
R201	Open	Output voltage decreased. No hazard.	AVR1:decreased
R202	Open	Output voltage decreased. No hazard.	AVR1:decreased
R203	Open	Output voltage decreased. No hazard.	AVR1:decreased
R204	Open	Normal operation.	
R205	Open	No Hazard.	AVR1:0
R206	Open	No Hazard.	AVR1:0
R207	Open	Normal operation.	
R208	Open	Normal operation.	
R209	Open	Normal operation.	
R210	Open	Normal operation.	
R212	Open	Normal operation.	
R213	Open	Normal operation.	
R214	Open	F101 opened, No hazard.	AVR1:0
R216	Open	No Hazard.	AVR1:0
R217	Open	Normal operation.	
R218	Open	Output voltage decreased. No hazard.	AVR1:decreased
R219	Open	Normal operation.	
R220	Open	Normal operation.	
R230	Open	Normal operation.	
R501	Open	Normal operation.	
R502	Open	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
R503	Open		Normal operation.	
R504	Open		Normal operation.	
R505	Open		Normal operation.	
R506	Open		Normal operation.	
R507	Open		Normal operation.	
R508	Open		Normal operation.	
R509	Open		Normal operation.	
R510	Open		Normal operation.	
R511	Open		Normal operation.	
R512	Open		Normal operation.	
R520	Open		Normal operation.	
R601	Open	Except -24	Normal operation.	
R602	Open		Normal operation.	
R603	Open		Normal operation.	
R605	Open		No Hazard.	AVR1:0
R606	Open		No Hazard.	AVR1:0
R607	Open		Normal operation.	
R608	Open		Output voltage decreased.	AVR1:decreased
R609	Open		No Hazard.	AVR1:0
R610	Open		No Hazard.	AVR1:0
R611	Open		Output voltage decreased.	AVR1:decreased

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
SS101	Short		F101 opened, No hazard.	AVR1:0
TR104	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	F101 opened, No hazard.	AVR1:0
	Short	D-S	F101 opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	F101 opened, No hazard.	AVR1:0
TR201	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	F101 opened, No hazard.	AVR1:0
	Short	D-S	F101 opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	F101 opened, No hazard.	AVR1:0