

## ABNORMAL TEST RESULT

OF MODEL LFA300F

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 : 2/32 ~ 28/32)

( Abnormal Test Result: 29/32 ~ 32/32)

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	R111 opened, No hazard.	AVR1:0
C104	Open	Normal operation.	
	Short	R111 opened, No hazard.	AVR1:0
C110	Open	Normal operation.	
	Short	Normal operation.	
C111	Open	Normal operation.	
	Short	Normal operation.	
C113	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C114	Open	Normal operation.	
	Short	Normal operation.	
C115	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C116	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C117	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C118	Open	Normal operation.	
	Short	No Hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C119	Open	Normal operation.	
	Short	Normal operation.	
C120	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C121	Open	Normal operation.	
	Short	Normal operation.	
C122	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C123	Open	Normal operation.	
	Short	See 29 Page.	
C124	Open	Normal operation.	
	Short	See 29 Page.	
C125	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C127	Open	Normal operation.	
	Short	See 29 Page.	
C128	Open	Normal operation.	
	Short	See 29 Page.	
C130	Open	Normal operation.	
	Short	R111 opened, No hazard.	AVR1:0
C131	Open	No Hazard.	AVR1:0
	Short	Normal operation.	
C132	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C133	Open	Normal operation.	
	Short	Normal operation.	
C201	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C203	Open	Normal operation.	AVR1:0
	Short	No Hazard.	AVR1:0
C204	Open	Normal operation.	
	Short	See 29 Page.	
C205	Open	Normal operation.	
	Short	Normal operation.	
C206	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C207	Open	Normal operation.	
	Short	Normal operation.	
C208	Open	Normal operation.	
	Short	Normal operation.	
C210	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C211	Open	Normal operation.	
	Short	Normal operation.	
C212	Open	Normal operation.	
	Short	Output voltage decreased.	AVR1:decreased
C214	Open	Normal operation.	
	Short	See 29 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C215	Open		Normal operation.	
	Short		See 29 Page.	
C216	Open		Normal operation.	
	Short		See 29 Page.	
C217	Open		Normal operation.	
	Short		See 29 Page.	
C220	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C501	Open		Normal operation.	
	Short		See 29 Page.	
C502	Open		Normal operation.	
	Short		See 29 Page.	
C503	Open		Normal operation.	
	Short		See 29 Page.	
C504	Open		Normal operation.	
	Short		See 29 Page.	
C505	Open		Normal operation.	
	Short		Normal operation.	
C506	Open		Normal operation.	
	Short		Normal operation.	
C507	Open	except 15,30,48	Normal operation.	
	Short	except 15,30,48	Normal operation.	
C508	Open	except 15,30,48	Normal operation.	
	Short	except 15,30,48	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C509	Open	only 3R3,5	Normal operation.	
	Short	only 3R3,5	Normal operation.	
C510	Open	only 3R3,5	Normal operation.	
	Short	only 3R3,5	Normal operation.	
C511	Open	only 3R3,5	See 29 Page.	
	Short	only 3R3,5	Normal operation.	
C512	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
C513	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
C514	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
C515	Open	only 3R3,5,12,15	Normal operation.	
	Short	only 3R3,5,12,15	No Hazard.	AVR1:0
C522	Open	only 3R3,5	See 29 Page.	
	Short	only 3R3,5	Normal operation.	
C601	Open	only 12	Output voltage decreased.	AVR1:decreased
	Short	only 12	Output voltage decreased.	AVR1:decreased
C602	Open	except 12,48	Output voltage decreased.	AVR1:decreased
	Short	except 12,48	Output voltage decreased.	AVR1:decreased
C603	Open		Output voltage decreased.	AVR1:decreased
	Short		Output voltage decreased.	AVR1:decreased
C606	Open	only 48	Output voltage decreased.	AVR1:decreased
	Short	only 48	Output voltage decreased.	AVR1:decreased

F M E A

Component	Mode	Comment	Output Voltage (V)
D101	Open	R111 opened, No hazard.	AVR1:0
	Short	R111 opened, No hazard.	AVR1:0
D102	Open	R111 opened, No hazard.	AVR1:0
	Short	R111 opened, No hazard.	AVR1:0
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	Normal operation.	
D107	Open	Normal operation.	
	Short	Normal operation.	
D108	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
D109	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
D111	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0
D112	Open	Normal operation.	
	Short	Normal operation.	
D201	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
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		Normal operation.	
D208	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D211	Open		Normal operation.	
	Short		Normal operation.	
D501	Open	only 3R3,5	No Hazard.	AVR1:0
	Short	only 3R3,5	Normal operation.	
D502	Open	only 3R3,5	See 29 Page.	
	Short	only 3R3,5	Normal operation.	
IC101	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	
		3	Normal operation.	
		4	No Hazard.	AVR1:0
		5	Normal operation.	
		6	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC101	Open	7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1 -2	Normal operation.	
		2 -3	Normal operation.	
		3 -4	Normal operation.	
		5 -6	No Hazard.	AVR1:0
		6 -7	No Hazard.	AVR1:0
		7 -8	F101 opened, No hazard.	AVR1:0
IC201	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	Normal operation.	
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation.	
		8	Output voltage decreased.	AVR1:decreased
	Short	1 -2	No Hazard.	AVR1:0
		2 -3	No Hazard.	AVR1:0
		3 -4	Normal operation.	
		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

F M E A

Component	Mode		Comment	Output Voltage (V)
IC601	Open	R	No Hazard.	AVR1:0
	Short	A-K	Output voltage decreased.	AVR1:decreased
		K-R	Output voltage decreased.	AVR1:decreased
		R-A	No Hazard.	AVR1:0
J501	Open	except 24,36,48	Normal operation.	
	Short	except 24,36,48	Normal operation.	
J601	Open	except 36,48	No Hazard.	AVR1:0
	Short	except 36,48	Normal operation.	
J612	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
J613	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L102	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L103	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L104	Open	1	Normal operation.	
		2	Normal operation.	
		3	R111 opened, No hazard.	AVR1:0
		4	R111 opened, No hazard.	AVR1:0
		5,6	No Hazard.	AVR1:0
		7,8	No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
L104	Short	1 -2	R111 opened, No hazard.	AVR1:0
		2 -3	R111 opened, No hazard.	AVR1:0
		3 -4	R111 opened, No hazard.	AVR1:0
		4 -5	R111 opened, No hazard.	AVR1:0
L105	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L106	Open		F101 opened, No hazard.	AVR1:0
	Short		Normal operation.	
L107	Open	only 24,30,36,48	F101 opened, No hazard.	AVR1:0
	Short	only 24,30,36,48	Normal operation.	
L108	Open		Normal operation.	
	Short		Normal operation.	
L201	Open		F101 opened, No hazard.	AVR1:0
	Short		Normal operation.	
L202	Open	except 3R3,5	F101 opened, No hazard.	AVR1:0
	Short	except 3R3,5	Normal operation.	
L507	Open		F101 opened, No hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
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.	

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Component	Mode		Comment	Output Voltage (V)
PC202	Short	A-K	Normal operation.	
		C-E	No Hazard.	AVR1:0
PTH201	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
PTH202	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
SCR101	Open	T1	R111 opened, No hazard.	AVR1:0
		T2	R111 opened, No hazard.	AVR1:0
		G	R111 opened, No hazard.	AVR1:0
	Short	T1 -T2	Normal operation.	
		T1 -G	R111 opened, No hazard.	AVR1:0
		T2 -G	R111 opened, No hazard.	AVR1:0
SS101	Open		No Hazard.	AVR1:0
	Short		F101 opened, No hazard.	AVR1:0
SS102 Cathode	Open		F101 opened, No hazard.	AVR1:0
SS102 Alternative	Open		See 29 Page.	
SS102	Short		F101 opened, No hazard.	AVR1:0
SS501 Cathode	Open	except 3R3,5	F101 opened, No hazard.	AVR1:0
SS501 Alternative	Open	except 3R3,5	See 29 Page.	
SS501	Short	except 3R3,5	No Hazard.	AVR1:0
SS502 Cathode	Open	except 3R3,5	See 29 Page.	
SS502 Alternative	Open	except 3R3,5	See 29 Page.	
SS502	Short	except 3R3,5	No Hazard.	AVR1:0
SS503 Cathode	Open	except 3R3,5	See 29 Page.	

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Component	Mode		Comment	Output Voltage (V)
SS503 Alternative	Open	except 3R3,5	See 29 Page.	
SS503	Short		No Hazard.	AVR1:0
T201	Open	1	No Hazard.	AVR1:0
		3	Normal operation.	
		4	Output voltage decreased. No hazard.	AVR1:decreased
		5	Output voltage decreased. No hazard.	AVR1:decreased
		6	No Hazard.	AVR1:0
		7 only 3R3,5	See 29 Page.	
		8 only 3R3,5	See 29 Page.	
		9	Normal operation.	
		10	Normal operation.	
		11	Normal operation.	
		12	Normal operation.	
	Short	3-4	Normal operation.	
		4-5	No Hazard.	AVR1:0
		5-6	R111 opened, No hazard.	AVR1:0
		8-7 only 3R3,5	No Hazard.	AVR1:0
		8-9 only 3R3,5	No Hazard.	AVR1:0
		10-11	No Hazard.	AVR1:0
TR101 D	Open	except 24,30,36,48	See 30 Page.	
TR101 S	Open	except 24,30,36,48	See 30 Page.	
TR101 G	Open	except 24,30,36,48	See 30 Page.	
TR101 D-S	Short	except 24,30,36,48	See 30 Page.	
TR101 S-G	Short	except 24,30,36,48	See 30 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR101 G-D	Short	except 24,30,36,48	See 30 Page.	
TR101 D	Open	only 24,30,36,48	See 30 Page.	
TR101 S	Open	only 24,30,36,48	See 30 Page.	
TR101 G	Open	only 24,30,36,48	See 30 Page.	
TR101 D-S	Short	only 24,30,36,48	See 30 Page.	
TR101 S-G	Short	only 24,30,36,48	See 30 Page.	
TR101 G-D	Short	only 24,30,36,48	See 30 Page.	
TR102 D	Open	only 24,30,36,48	See 30 Page.	
TR102 S	Open	only 24,30,36,48	See 30 Page.	
TR102 G	Open	only 24,30,36,48	See 30 Page.	
TR102 D-S	Short	only 24,30,36,48	See 30 Page.	
TR102 S-G	Short	only 24,30,36,48	See 30 Page.	
TR102 G-D	Short	only 24,30,36,48	See 30 Page.	
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	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
TR104	Short	G-D	Normal operation.	
TR105	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR107	Open	C	Normal operation.	
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	R111 opened, No hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	R142 opened, No hazard.	AVR1:0
TR108	Open	C	R111 opened, No hazard.	AVR1:0
		E	Normal operation.	
		B	R111 opened, No hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	R111 opened, No hazard.	AVR1:0
TR201	Open	D only 3R3,5	See 30 Page.	
		S only 3R3,5	See 30 Page.	
		G only 3R3,5	See 30 Page.	
	Short	D-S only 3R3,5	See 30 Page.	
		S-G only 3R3,5	See 30 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR201	Short	G-D only 3R3,5	See 30 Page.	
	Open	D except 3R3,5	See 31 Page.	
		S except 3R3,5	See 31 Page.	
		G except 3R3,5	See 31 Page.	
TR201 D-S	Short	except 3R3,5	See 31 Page.	
TR201	Short	S-G except 3R3,5	See 31 Page.	
TR201 G-D	Short	except 3R3,5	See 31 Page.	
TR202	Open	D	See 31 Page.	
		S	See 31 Page.	
		G	See 31 Page.	
	Short	D-S	See 31 Page.	
		S-G	See 31 Page.	
		G-D	See 31 Page.	
TR204	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0
TR205	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR205	Short	B -C	No Hazard.	AVR1:0
TR206	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C -E	F101 opened, No hazard.	AVR1:0
		E -B	Normal operation.	
		B -C	Normal operation.	
TR207	Open	C	F101 opened, No hazard.	AVR1:0
		E	F101 opened, No hazard.	AVR1:0
		B	F101 opened, No hazard.	AVR1:0
	Short	C -E	No Hazard.	AVR1:0
		E -B	F101 opened, No hazard.	AVR1:0
		B -C	No Hazard.	AVR1:0
TR501	Open	D only 3R3,5	See 31 Page.	
		S only 3R3,5	See 31 Page.	
		G only 3R3,5	See 31 Page.	
	Short	D -S only 3R3,5	See 31 Page.	
		S -G only 3R3,5	See 31 Page.	
		G -D only 3R3,5	See 31 Page.	
TR502	Open	D only 3R3,5	See 31 Page.	
		S only 3R3,5	See 31 Page.	
		G only 3R3,5	See 31 Page.	
	Short	D -S only 3R3,5	See 31 Page.	
		S -G only 3R3,5	See 31 Page.	
		G -D only 3R3,5	See 31 Page.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR502	Short	G-D only 3R3,5	See 31 Page.	
TR503	Open	D only 3R3,5	See 32 Page.	
		S only 3R3,5	See 32 Page.	
		G only 3R3,5	See 32 Page.	
	Short	D-S only 3R3,5	See 32 Page.	
		S-G only 3R3,5	See 32 Page.	
		G-D only 3R3,5	See 32 Page.	
TR504	Open	D only 3R3,5	See 32 Page.	
		S only 3R3,5	See 32 Page.	
		G only 3R3,5	See 32 Page.	
	Short	D-S only 3R3,5	Normal operation.	
		S-G only 3R3,5	Normal operation.	
		G-D only 3R3,5	Normal operation.	
VR601	Open	brush	Output voltage decreased.	AVR1:decreased
			No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
ZD101	Open		Normal operation.	
	Short		Normal operation.	
ZD102	Open		Normal operation.	
	Short		Normal operation.	
ZD104	Open		Normal operation.	
	Short		Normal operation.	
ZD105	Open		Normal operation.	
	Short		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
ZD202	Open		Normal operation.	
	Short		Output voltage decreased.	AVR1:decreased
ZD501	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
ZD502	Open	only 24,30,36,48	Normal operation.	
	Short	only 24,30,36,48	No Hazard.	AVR1:0
ZD503	Open	only 3R3,5	No Hazard.	AVR1:0
	Short	only 3R3,5	See 32 Page.	
ZD601	Open	only 30,36,48	No Hazard.	AVR1:0
	Short	only 30,36,48	Output voltage decreased.	AVR1:decreased
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.	
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.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R115	Open	Normal operation.	
R116	Open	Normal operation.	
R117	Open	Normal operation.	
R118	Open	No Hazard.	AVR1:0
R119	Open	No Hazard.	AVR1:0
R120	Open	No Hazard.	AVR1:0
R121	Open	No Hazard.	AVR1:0
R122	Open	No Hazard.	AVR1:0
R123	Open	Normal operation.	
R124	Open	Normal operation.	
R125	Open	Normal operation.	
R126	Open	Normal operation.	
R127	Open	Normal operation.	
R128	Open	Normal operation.	
R129	Open	Normal operation.	
R130	Open	Normal operation.	
R131	Open	Normal operation.	
R132	Open	Normal operation.	
R133	Open	Normal operation.	
R134	Open	Normal operation.	
R135	Open	Normal operation.	
R136	Open	Normal operation.	
R137	Open	Normal operation.	
R138	Open	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R139	Open		Normal operation.	
R140	Open		Normal operation.	
R141	Open		Normal operation.	
R142	Open		No Hazard.	AVR1:0
R143	Open		No Hazard.	AVR1:0
R145	Open		Normal operation.	
R146	Open		Normal operation.	
R148	Open		Normal operation.	
R149	Open		Normal operation.	
R150	Open		Normal operation.	
R151	Open		Normal operation.	
R152	Open		F101 opened, No hazard.	AVR1:0
R153	Open		F101 opened, No hazard.	AVR1:0
R154	Open	only 24,30,36,48	F101 opened, No hazard.	AVR1:0
R155	Open	only 24,30,36,48	F101 opened, No hazard.	AVR1:0
R156	Open		No Hazard.	AVR1:0
R157	Open		No Hazard.	AVR1:0
R158	Open		No Hazard.	AVR1:0
R159	Open		No Hazard.	AVR1:0
R160	Open		No Hazard.	AVR1:0
R161	Open		No Hazard.	AVR1:0
R162	Open		No Hazard.	AVR1:0
R165	Open		Normal operation.	
R171	Open		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R172	Open	Normal operation.	
R173	Open	Normal operation.	
R174	Open	Normal operation.	
R175	Open	Normal operation.	
R176	Open	Normal operation.	
R177	Open	Normal operation.	
R178	Open	Normal operation.	
R179	Open	Normal operation.	
R201	Open	Normal operation.	
R202	Open	Normal operation.	
R203	Open	Normal operation.	
R204	Open	Normal operation.	
R205	Open	Normal operation.	
R206	Open	Normal operation.	
R207	Open	Normal operation.	
R208	Open	Normal operation.	
R211	Open	Normal operation.	
R212	Open	Normal operation.	
R213	Open	Normal operation.	
R215	Open	Normal operation.	
R216	Open	No Hazard.	AVR1:0
R217	Open	No Hazard.	AVR1:0
R220	Open	No Hazard.	AVR1:0
R221	Open	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R222	Open		Normal operation.	
R224	Open		Normal operation.	
R225	Open		Normal operation.	
R226	Open		Normal operation.	
R227	Open		Normal operation.	
R229	Open		F101 opened, No hazard.	AVR1:0
R230	Open		F101 opened, No hazard.	AVR1:0
R231	Open	except 3R3,5	F101 opened, No hazard.	AVR1:0
R232	Open	except 3R3,5	F101 opened, No hazard.	AVR1:0
R233	Open		Normal operation.	
R234	Open		Normal operation.	
R235	Open		Normal operation.	
R236	Open		Output voltage decreased.	AVR1:decreased
R237	Open		Output voltage decreased.	AVR1:decreased
R238	Open		Output voltage decreased.	AVR1:decreased
R239	Open		Output voltage decreased.	AVR1:decreased
R241	Open		Normal operation.	
R242	Open		Normal operation.	
R243	Open		Normal operation.	
R244	Open		Normal operation.	
R245	Open		Normal operation.	
R246	Open		Normal operation.	
R247	Open		Normal operation.	
R248	Open		Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R249	Open	Normal operation.	
R250	Open	Normal operation.	
R251	Open	Normal operation.	
R252	Open	Normal operation.	
R253	Open	Normal operation.	
R254	Open	Normal operation.	
R255	Open	Normal operation.	
R260	Open	Normal operation.	
R261	Open	Normal operation.	
R262	Open	Normal operation.	
R263	Open	Normal operation.	
R264	Open	Normal operation.	
R265	Open	Normal operation.	
R266	Open	Normal operation.	
R267	Open	Normal operation.	
R268	Open	Normal operation.	
R269	Open	Normal operation.	
R270	Open	Normal operation.	
R271	Open	Normal operation.	
R272	Open	Normal operation.	
R273	Open	Normal operation.	
R274	Open	Normal operation.	
R275	Open	Normal operation.	
R281	Open	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
R501	Open		Normal operation.	
R502	Open		Normal operation.	
R503	Open		Normal operation.	
R504	Open		Normal operation.	
R505	Open	only 24,30,36,48	Normal operation.	
R506	Open	except 12,15	Normal operation.	
R507	Open	except 12,15	Normal operation.	
R508	Open	only 24,30,36,48	Normal operation.	
R509	Open	except 12,15	Normal operation.	
R510	Open	except 12,15	Normal operation.	
R511	Open	only 24,30,36,48	Normal operation.	
R512	Open	except 12,15	Normal operation.	
R513	Open	only 3R3,5	Normal operation.	
R514	Open	only 3R3,5	Normal operation.	
R515	Open	only 3R3,5	Normal operation.	
R516	Open		Normal operation.	
R517	Open		Normal operation.	
R518	Open		Normal operation.	
R519	Open		Normal operation.	
R520	Open	only 3R3,5	Normal operation.	
R522	Open		Normal operation.	
R523	Open		Normal operation.	
R524	Open	except 12,15	Normal operation.	
R525	Open	only 24,30,36,48	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
R526	Open		Normal operation.	
R527	Open		Normal operation.	
R528	Open	only 3R3,5	Normal operation.	
R529	Open		Normal operation.	
R530	Open		Normal operation.	
R534	Open		Normal operation.	
R536	Open		Normal operation.	
R538	Open		Normal operation.	
R540	Open		Normal operation.	
R542	Open		Normal operation.	
R543	Open		Normal operation.	
R544	Open		Normal operation.	
R545	Open		Normal operation.	
R546	Open		Normal operation.	
R547	Open		Normal operation.	
R548	Open		Normal operation.	
R549	Open		Normal operation.	
R550	Open		Normal operation.	
R551	Open		Normal operation.	
R552	Open		Normal operation.	
R553	Open		Normal operation.	
R554	Open		Normal operation.	
R555	Open		Normal operation.	
R556	Open		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R557	Open		Normal operation.	
R558	Open		Normal operation.	
R559	Open		Normal operation.	
R560	Open		Normal operation.	
R561	Open		Normal operation.	
R562	Open		Normal operation.	
R563	Open		Normal operation.	
R564	Open		Normal operation.	
R565	Open		Normal operation.	
R566	Open		Normal operation.	
R568	Open		Normal operation.	
R570	Open	only 3R3,5	Normal operation.	
R571	Open	except 3R3,5	Normal operation.	
R572	Open	except 3R3,5	Normal operation.	
R573	Open	except 3R3,5	Normal operation.	
R574	Open	except 3R3,5	Normal operation.	
R575	Open	except 3R3,5	Normal operation.	
R576	Open	except 3R3,5	Normal operation.	
R580	Open		Normal operation.	
R582	Open		Normal operation.	
R584	Open		Normal operation.	
R586	Open		Normal operation.	
R587	Open		Normal operation.	
R588	Open		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R589	Open		Normal operation.	
R590	Open	only 3R3,5	Normal operation.	
R591	Open	except 12,15	Normal operation.	
R592	Open	except 12,15	Normal operation.	
R593	Open	only 24,30,36,48	Normal operation.	
R594	Open	except 12,15	Normal operation.	
R595	Open	except 12,15	Normal operation.	
R596	Open	only 24,30,36,48	Normal operation.	
R597	Open	except 12,15	Normal operation.	
R598	Open	except 12,15	Normal operation.	
R601	Open		Output voltage decreased.	AVR1:decreased
R602	Open		Output voltage decreased.	AVR1:decreased
R603	Open		Normal operation.	
R604	Open		Output voltage decreased.	AVR1:decreased
R605	Open		No Hazard.	AVR1:0
R606	Open		No Hazard.	AVR1:0
R607	Open		Output voltage decreased.	AVR1:decreased

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C123	Short		Normal operation.	
C124	Short		Normal operation.	
C127	Short		R111 opened, No hazard.	AVR1:0
C128	Short		R111 opened, No hazard.	AVR1:0
C204	Short		No Hazard.	AVR1:0
C214	Short		Normal operation.	
C215	Short		Normal operation.	
C216	Short		Normal operation.	
C217	Short		Normal operation.	
C501	Short		Normal operation.	
C502	Short		Normal operation.	
C503	Short		Normal operation.	
C504	Short		Normal operation.	
C511	Open	only 3R3,5	Normal operation.	
C522	Open	only 3R3,5	Normal operation.	
D502	Open	only 3R3,5	Normal operation.	
SS102 Alternative	Open		Normal operation.	
SS501 Alternative	Open	except 3R3,5	Normal operation.	
SS502 Cathode	Open	except 3R3,5	Normal operation.	
SS502 Alternative	Open	except 3R3,5	Normal operation.	
SS503 Cathode	Open	except 3R3,5	Normal operation.	
SS503 Alternative	Open	except 3R3,5	Normal operation.	
T201	Open	7 only 3R3,5	Normal operation.	
		8 only 3R3,5	Normal operation.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR101 D	Open	except 24,30,36,48	No Hazard.	AVR1:0
TR101 S	Open	except 24,30,36,48	No Hazard.	AVR1:0
TR101 G	Open	except 24,30,36,48	No Hazard.	AVR1:0
TR101 D-S	Short	except 24,30,36,48	F101 opened, No hazard.	AVR1:0
TR101 S-G	Short	except 24,30,36,48	No Hazard.	AVR1:0
TR101 G-D	Short	except 24,30,36,48	F101 opened, No hazard.	AVR1:0
TR101	Open	D only 24,30,36,48	No Hazard.	AVR1:0
		S only 24,30,36,48	No Hazard.	AVR1:0
		G only 24,30,36,48	F101 opened, No hazard.	AVR1:0
TR101 D-S	Short	only 24,30,36,48	F101 opened, No hazard.	AVR1:0
TR101 S-G	Short	only 24,30,36,48	No Hazard.	AVR1:0
TR101 G-D	Short	only 24,30,36,48	F101 opened, No hazard.	AVR1:0
TR102	Open	D only 24,30,36,48	No Hazard.	AVR1:0
		S only 24,30,36,48	No Hazard.	AVR1:0
		G only 24,30,36,48	F101 opened, No hazard.	AVR1:0
TR102 D-S	Short	only 24,30,36,48	F101 opened, No hazard.	AVR1:0
TR102 S-G	Short	only 24,30,36,48	No Hazard.	AVR1:0
TR102 G-D	Short	only 24,30,36,48	F101 opened, No hazard.	AVR1:0
TR201	Open	D only 3R3,5	No Hazard.	AVR1:0
		S only 3R3,5	No Hazard.	AVR1:0
		G only 3R3,5	F101 opened, No hazard.	AVR1:0
	Short	D-S only 3R3,5	F101 opened, No hazard.	AVR1:0
		S-G only 3R3,5	No Hazard.	AVR1:0
		G-D only 3R3,5	F101 opened, No hazard.	AVR1:0

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR201	Open	D except 3R3,5	No Hazard.	AVR1:0
		S except 3R3,5	No Hazard.	AVR1:0
		G except 3R3,5	F101 opened, No hazard.	AVR1:0
	Short	D-S except 3R3,5	F101 opened, No hazard.	AVR1:0
		S-G except 3R3,5	F101 opened, No hazard.	AVR1:0
		G-D except 3R3,5	F101 opened, No hazard.	AVR1:0
TR202	Open	D except 3R3,5	No Hazard.	AVR1:0
		S except 3R3,5	No Hazard.	AVR1:0
		G except 3R3,5	F101 opened, No hazard.	AVR1:0
	Short	D-S except 3R3,5	F101 opened, No hazard.	AVR1:0
		S-G except 3R3,5	F101 opened, No hazard.	AVR1:0
		G-D except 3R3,5	F101 opened, No hazard.	AVR1:0
TR501	Open	D only 3R3,5	No Hazard.	AVR1:0
		S only 3R3,5	No Hazard.	AVR1:0
		G only 3R3,5	Normal operation.	
	Short	D-S only 3R3,5	No Hazard.	AVR1:0
		S-G only 3R3,5	Normal operation.	
		G-D only 3R3,5	No Hazard.	AVR1:0
TR502	Open	D only 3R3,5	No Hazard.	AVR1:0
		S only 3R3,5	No Hazard.	AVR1:0
		G only 3R3,5	Normal operation.	
	Short	D-S only 3R3,5	No Hazard.	AVR1:0
		S-G only 3R3,5	Normal operation.	
		G-D only 3R3,5	No Hazard.	AVR1:0

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR503	Open	D only 3R3,5	No Hazard.	AVR1:0
		S only 3R3,5	No Hazard.	AVR1:0
		G only 3R3,5	Normal operation.	
	Short	D-S only 3R3,5	No Hazard.	AVR1:0
		S-G only 3R3,5	Normal operation.	
		G-D only 3R3,5	No Hazard.	AVR1:0
TR504	Open	D only 3R3,5	Normal operation.	
		S only 3R3,5	Normal operation.	
		G only 3R3,5	Normal operation.	
ZD503	Short	only 3R3,5	Normal operation.	