



## ABNORMAL TEST RESULT

OF MODEL PJMA1500F

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 : 2/45 ~ 41/45)

( Abnormal Test Result: 42/45 ~ 45/45)

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	AVR1:*
	Short	F101,F102 opened, No hazard.	AVR1:0
C102	Open	Normal operation	AVR1:*
	Short	F101,F102 opened, No hazard.	AVR1:0
C105	Open	Normal operation	AVR1:*
	Short	F101,F102 opened, No hazard.	AVR1:0
C106	Open	Normal operation	AVR1:*
	Short	F101,F102 opened, No hazard.	AVR1:0
C107	Open	Normal operation	AVR1:*
	Short	F101,F102 opened, No hazard.	AVR1:0
C108	Open	Normal operation	AVR1:*
	Short	F101,F102 opened, No hazard.	AVR1:0
C109	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*
C110	Open	Normal operation	AVR1:*
	Short	No Hazard.	AVR1:0
C112	Open	No Hazard.	AVR1:0
	Short	See page 42.	
C114	Open	Normal operation	AVR1:*
	Short	See page 42.	
C115	Open	Normal operation	AVR1:*
	Short	R180, R181 opened, No hazard.	AVR1:0
C116	Open	Normal operation	AVR1:*
	Short	Normal operation	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C117	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C118	Open	Normal operation	AVR1:**
	Short	R180, R181 opened, No hazard.	AVR1:0
C119	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	F101, F102 opened, No hazard.	AVR1:0
C120	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C122	Open	No Hazard.	AVR1:**
	Short	R180, R181 opened, No hazard.	AVR1:0
C123	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C125	Open	Normal operation	AVR1:**
	Short	See page 42.	
C130	Open	Normal operation	AVR1:**
	Short	See page 42.	
C131	Open	Normal operation	AVR1:**
	Short	See page 42.	
C132	Open	Normal operation	AVR1:**
	Short	See page 42.	
C133	Open	Normal operation	AVR1:**
	Short	See page 42.	
C134	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**



F M E A

Component	Mode	Comment	Output Voltage (V)
C135	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C136	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C137	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C138	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C139	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C140	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C141	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C142	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C143	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C144	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C147	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C170	Open	Normal operation	AVR1:**
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C171	Open	Normal operation	AVR1:**
	Short	R180, R181 opened, No hazard.	AVR1:0
C172	Open	Normal operation	AVR1:**
	Short	See page 42.	
C173	Open	Normal operation	AVR1:**
	Short	R180, R181 opened, No hazard.	AVR1:0
C180	Open	Normal operation	AVR1:**
	Short	See page 42.	
C181	Open	R180, R181 opened, No hazard.	AVR1:0
	Short	R180, R181 opened, No hazard.	AVR1:0
C182	Open	R180, R181 opened, No hazard.	AVR1:0
	Short	Normal operation	AVR1:**
C183	Open	Normal operation	AVR1:**
	Short	R180, R181 opened, No hazard.	AVR1:0
C201	Open	Normal operation	AVR1:**
	Short	See page 42.	
C202	Open	Normal operation	AVR1:**
	Short	See page 42.	
C203	Open	Normal operation	AVR1:**
	Short	See page 42.	
C204	Open	Normal operation	AVR1:**
	Short	See page 42.	
C205	Open	Normal operation	AVR1:**
	Short	See page 42.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
C206	Open	Normal operation	AVR1:**
	Short	No Hazard.	AVR1:0
C208	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C209	Open	Normal operation	AVR1:**
	Short	No Hazard.	AVR1:0
C210 (Only -24, -48)	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C211	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C213	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C214	Open	Normal operation	AVR1:**
	Short	See page 42.	
C215	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C220	Open	Normal operation	AVR1:**
	Short	See page 42.	
C221	Open	F201, Output voltage decreased. No hazard. 03, R120, R122 opened, IC101 8-6 short, No hazard.	AVR1:0
	Short	See page 42.	
C222	Open	F201, Output voltage decreased. No hazard. 03, R120, R122 opened, IC101 8-6 short, No hazard.	AVR1:0
	Short	Normal operation	AVR1:**
C223	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**



F M E A

Component	Mode	Comment	Output Voltage (V)
C250	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C251	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C252	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C253	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C254	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C255	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C270	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C271	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C272	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C273	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C274	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C275	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**

## F M E A

Component	Mode	Comment	Output Voltage (V)
C276	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C277	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C290 (Only -12, -24)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C291 (Only -12, -24)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C501	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C502	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C503	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C504	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C505	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C506	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C507	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C508	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased





F M E A

Component	Mode	Comment	Output Voltage (V)
C511	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C512 (Only -12, -48)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C513	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C514 (Only -12, -48)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C515	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C516	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C517 (Only -24)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C518 (Only -24)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C519	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C520	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C521	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C522	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**



## F M E A

Component	Mode	Comment	Output Voltage (V)
C523 (Except:-48)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C524 (Except:-48)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C528 (Except:-48)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C529 (Except:-48)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C550	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C551	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C582 (Only -48)	Open	Normal operation	AVR1:**
	Short	No Hazard.	AVR1:0
C591	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C592	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C593	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C594	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C595 (Only -24, -36)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**

## F M E A

Component	Mode	Comment	Output Voltage (V)
C596 (Only -24, -36)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C601	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C602 (Only -12, -36)	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C604 (Only -48)	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C605 (Only -24, -48)	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C606	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C607	Open	Normal operation	AVR1:**
	Short	No Hazard.	AVR1:0
C608	Open	Normal operation	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C701	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C702	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C704	Open	No Hazard.	AVR1:**
	Short	See page 42.	
C705	Open	No Hazard.	AVR1:**
	Short	See page 42.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
C706	Open	No Hazard.	AVR1:**
	Short	See page 42.	
C707	Open	No Hazard.	AVR1:**
	Short	No Hazard.	AVR1:0
C708	Open	No Hazard.	AVR1:**
	Short	See page 42.	
C710	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
C711	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D101	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D102	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D103	Open	See page 42.	
	Short	Normal operation	AVR1:**
D104	Open	See page 42.	
	Short	Normal operation	AVR1:**
D105	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D106	Open	Normal operation	AVR1:**
	Short	R180, R181 opened, No hazard.	AVR1:0
D107	Open	Normal operation	AVR1:**
	Short	R180, R181 opened, No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
D108	Open	Normal operation	AVR1:**
	Short	R180, R181 opened, No hazard.	AVR1:0
D109	Open	R180, R181 opened, No hazard.	AVR1:0
	Short	Normal operation	AVR1:**
D110	Open	Normal operation	AVR1:**
	Short	See page 42.	
D111	Open	F101, F102 opened, No hazard.	AVR1:0
	Short	F101, F102 opened, No hazard.	AVR1:0
D112	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D113	Open	Normal operation	AVR1:**
	Short	R180, R181 opened, No hazard.	AVR1:0
D114	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D170	Open	No Hazard.	AVR1:0
	Short	Normal operation	AVR1:**
D171	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D180	Open	R180, R181 opened, No hazard.	AVR1:0
	Short	Normal operation	AVR1:**
D181	Open	R180, R181 opened, No hazard.	AVR1:0
	Short	R180, R181 opened, No hazard.	AVR1:0
D201	Open	Normal operation	AVR1:**
	Short	See page 43.	



F M E A

Component	Mode	Comment	Output Voltage (V)
D202	Open	Normal operation	AVR1:**
	Short	See page 43.	
D203	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D204	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D205	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D206 (Except:-36)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D207	Open	Normal operation	AVR1:**
	Short	No Hazard.	AVR1:0
D208	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D211	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
D250	Open	No Hazard.	AVR1:0
	Short	Normal operation	AVR1:**
D251	Open	No Hazard.	AVR1:0
	Short	Normal operation	AVR1:**
D252	Open	Normal operation	AVR1:**
	Short	See page 43.	
D253	Open	Normal operation	AVR1:**
	Short	See page 43.	



F M E A

Component	Mode		Comment	Output Voltage (V)
D270	Open		No Hazard.	AVR1:0
	Short		Normal operation	AVR1:*
D271	Open		No Hazard.	AVR1:0
	Short		Normal operation	AVR1:*
D272	Open		Normal operation	AVR1:*
	Short		See page 43.	
D273	Open		Normal operation	AVR1:*
	Short		See page 43.	
D701	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
D703	Open		Normal operation	AVR1:*
	Short		No Hazard.	AVR1:0
FAN701	Open	1	See page 43.	
		2	See page 43.	
	Short	1-2	No Hazard.	AVR1:0
FAN702	Open	1	See page 43.	
		2	See page 43.	
	Short	1-2	No Hazard.	AVR1:0
IC101	Open	1	R180, R181 opened, No hazard.	AVR1:0
		2	R180, R181 opened, No hazard.	AVR1:0
		3	R180, R181 opened, No hazard.	AVR1:0
		4	R180, R181 opened, No hazard.	AVR1:0
		5	R180, R181 opened, No hazard.	AVR1:0
		6	R180, R181 opened, No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC101	Open	7	R180, R181 opened, No hazard.	AVR1:0
		8	R180, R181 opened, No hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	R180, R181 opened, No hazard.	AVR1:0
		3-4	R180, R181 opened, No hazard.	AVR1:0
		5-6	R180, R181 opened, No hazard.	AVR1:0
		6-7	R180, R181 opened, No hazard.	AVR1:0
		7-8	F101, F102 opened, No hazard.	AVR1:0
IC102	Open	2	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	Normal operation	AVR1:*
		6	Normal operation	AVR1:*
		7	No Hazard.	AVR1:*
	Short	5-6	Normal operation	AVR1:*
		6-7	Normal operation	AVR1:*
IC201	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation	AVR1:*
		8	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Short	2-3	No Hazard.	AVR1:0
		3-4	Normal operation	AVR1:*
		5-6	F101, F102 opened, No hazard.	AVR1:0
		6-7	Normal operation	AVR1:*
		7-8	No Hazard.	AVR1:0
IC501 (Only -48)	Open	K	Normal operation	AVR1:*
		A	Normal operation	AVR1:*
		R	Normal operation	AVR1:*
	Short	A-K	No Hazard.	AVR1:0
		K-R	No Hazard.	AVR1:0
		R-A	Normal operation	AVR1:*
IC601	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
		K-R	Output voltage decreased. No hazard.	AVR1:decreased
		R-A	No Hazard.	AVR1:0
IC701	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
J201	Open		No Hazard.	AVR1:0
J501 (Only -12)	Open		Normal operation	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
J601 (Only -12, -24)	Open		No Hazard.	AVR1:0
J602	Open		No Hazard.	AVR1:0
J603	Open		No Hazard.	AVR1:0
L101	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
	Short	1-2	F101, F102 opened, No hazard.	AVR1:0
		2-3	Normal operation	AVR1:*
		3-4	F101, F102 opened, No hazard.	AVR1:0
L102	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
	Short	1-2	F101, F102 opened, No hazard.	AVR1:0
		2-3	Normal operation	AVR1:*
		3-4	F101, F102 opened, No hazard.	AVR1:0
L103	Open	3, 4, 5	No Hazard.	AVR1:0
		8, 9, 10	No Hazard.	AVR1:0
		12	See page 43.	
		14	See page 43.	
L104	Open		See page 43.	
	Short		Normal operation	AVR1:*
L105	Open		No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
L105	Short		Normal operation	AVR1:**
L207	Open		Normal operation	AVR1:**
	Short		Normal operation	AVR1:**
L208	Open		Normal operation	AVR1:**
	Short		Normal operation	AVR1:**
L517	Open	A	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
		1	No Hazard.	AVR1:0
		2 only 24	No Hazard.	AVR1:0
		14 only 48	No Hazard.	AVR1:0
	Short	A-B	Output voltage decreased. No hazard.	AVR1:decreased
		1-2 only 24	See page 43.	
L701	Open		No Hazard.	AVR1:0
	Short		Normal operation	AVR1:**
LED501	Open		Normal operation	AVR1:**
	Short		Normal operation	AVR1:**
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	AVR1:**
		C, E	Normal operation	AVR1:**
	Short	A-K	Normal operation	AVR1:**
		C-E	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
PTH202	Open	No Hazard.	AVR1:0
	Short	Normal operation	AVR1:*
R101	Open	Normal operation	AVR1:*
R102	Open	Normal operation	AVR1:*
R103	Open	Normal operation	AVR1:*
R104	Open	Normal operation	AVR1:*
R105	Open	Normal operation	AVR1:*
R106	Open	Normal operation	AVR1:*
R107	Open	Normal operation	AVR1:*
R108	Open	Normal operation	AVR1:*
R109	Open	Normal operation	AVR1:*
R110	Open	R180, R181 opened, No hazard.	AVR1:0
R111	Open	R180, R181 opened, No hazard.	AVR1:0
R112	Open	R180, R181 opened, No hazard.	AVR1:0
R113	Open	Normal operation	AVR1:*
R114	Open	R180, R181 opened, No hazard.	AVR1:0
R115	Open	R180, R181 opened, No hazard.	AVR1:0
R116	Open	R180, R181 opened, No hazard.	AVR1:0
R117	Open	R180, R181 opened, No hazard.	AVR1:0
R118	Open	R180, R181 opened, No hazard.	AVR1:0
R119	Open	R180, R181 opened, No hazard.	AVR1:0
R120	Open	R180, R181 opened, No hazard.	AVR1:0
R121	Open	R180, R181 opened, No hazard.	AVR1:0
R122	Open	See page 43.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R123	Open	Normal operation	AVR1:**
R124	Open	Normal operation	AVR1:**
R125	Open	Normal operation	AVR1:**
R126	Open	Normal operation	AVR1:**
R127	Open	Normal operation	AVR1:**
R128	Open	Normal operation	AVR1:**
R129	Open	Output voltage decreased. No hazard.	AVR1:decreased
R130	Open	R180, R181 opened, No hazard.	AVR1:0
R131	Open	R180, R181 opened, No hazard.	AVR1:0
R132	Open	Normal operation	AVR1:**
R133	Open	R180, R181 opened, No hazard.	AVR1:0
R134	Open	Normal operation	AVR1:**
R135	Open	Normal operation	AVR1:**
R136	Open	Normal operation	AVR1:**
R137	Open	Normal operation	AVR1:**
R138	Open	Normal operation	AVR1:**
R139	Open	Normal operation	AVR1:**
R140	Open	Normal operation	AVR1:**
R141	Open	Normal operation	AVR1:**
R142	Open	Normal operation	AVR1:**
R143	Open	Normal operation	AVR1:**
R144	Open	Normal operation	AVR1:**
R145	Open	Normal operation	AVR1:**
R146	Open	R180, R181 opened, No hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
R147	Open	R180, R181 opened, No hazard.	AVR1:0
R148	Open	R180, R181 opened, No hazard.	AVR1:0
R149	Open	R180, R181 opened, No hazard.	AVR1:0
R150	Open	R180, R181 opened, No hazard.	AVR1:0
R151	Open	R180, R181 opened, No hazard.	AVR1:0
R152	Open	Output voltage decreased. No hazard.	AVR1:decreased
R153	Open	Output voltage decreased. No hazard.	AVR1:decreased
R154	Open	Output voltage decreased. No hazard.	AVR1:decreased
R155	Open	Output voltage decreased. No hazard.	AVR1:decreased
R156	Open	Normal operation	AVR1:**
R157	Open	Normal operation	AVR1:**
R158	Open	Normal operation	AVR1:**
R159	Open	Normal operation	AVR1:**
R160	Open	Normal operation	AVR1:**
R161	Open	Normal operation	AVR1:**
R162	Open	Normal operation	AVR1:**
R163	Open	Normal operation	AVR1:**
R164	Open	Normal operation	AVR1:**
R165	Open	Normal operation	AVR1:**
R166	Open	Normal operation	AVR1:**
R167	Open	Normal operation	AVR1:**
R171	Open	No Hazard.	AVR1:0
R172	Open	No Hazard.	AVR1:0
R173	Open	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
R174	Open	No Hazard.	AVR1:0
R175	Open	Normal operation	AVR1:**
R176	Open	No Hazard.	AVR1:0
R177	Open	Normal operation	AVR1:**
R178	Open	No Hazard.	AVR1:0
R180	Open	Normal operation	AVR1:**
R181	Open	Normal operation	AVR1:**
R182	Open	Normal operation	AVR1:**
R183	Open	Normal operation	AVR1:**
R184	Open	Normal operation	AVR1:**
R185	Open	Normal operation	AVR1:**
R186	Open	R180, R181 opened, No hazard.	AVR1:0
R187	Open	R180, R181 opened, No hazard.	AVR1:0
R188	Open	Normal operation	AVR1:**
R189	Open	Normal operation	AVR1:**
R190	Open	Normal operation	AVR1:**
R201	Open	Normal operation	AVR1:**
R202	Open	Normal operation	AVR1:**
R203	Open	Normal operation	AVR1:**
R204	Open	Normal operation	AVR1:**
R205	Open	Normal operation	AVR1:**
R206	Open	Normal operation	AVR1:**
R207	Open	Normal operation	AVR1:**
R208	Open	Normal operation	AVR1:**

## F M E A

Component	Mode	Comment	Output Voltage (V)
R209	Open	Normal operation	AVR1:**
R214	Open	Normal operation	AVR1:**
R215	Open	Normal operation	AVR1:**
R219	Open	Normal operation	AVR1:**
R220	Open	Normal operation	AVR1:**
R223	Open	Normal operation	AVR1:**
R225 (Only -24, -48)	Open	Normal operation	AVR1:**
R226	Open	No Hazard.	AVR1:0
R227	Open	No Hazard.	AVR1:0
R228	Open	Normal operation	AVR1:**
R230	Open	Output voltage decreased. No hazard.	AVR1:decreased
R231	Open	Normal operation	AVR1:**
R232 (Except:-36)	Open	Normal operation	AVR1:**
R234	Open	No Hazard.	AVR1:0
R235	Open	No Hazard.	AVR1:0
R236	Open	Normal operation	AVR1:**
R237	Open	Normal operation	AVR1:**
R238	Open	Normal operation	AVR1:**
R239	Open	Normal operation	AVR1:**
R240	Open	Normal operation	AVR1:**
R241	Open	Normal operation	AVR1:**
R242	Open	See page 43.	
R243	Open	See page 43.	
R246	Open	Normal operation	AVR1:**





F M E A

Component	Mode	Comment	Output Voltage (V)
R248	Open	Normal operation	AVR1:**
R249	Open	Normal operation	AVR1:**
R250	Open	See page 43.	
R251	Open	No Hazard.	AVR1:0
R252	Open	No Hazard.	AVR1:0
R253	Open	See page 43.	
R254	Open	See page 43.	
R255	Open	Normal operation	AVR1:**
R257	Open	Normal operation	AVR1:**
R258	Open	Normal operation	AVR1:**
R259	Open	Normal operation	AVR1:**
R260	Open	Normal operation	AVR1:**
R261	Open	Normal operation	AVR1:**
R262	Open	Normal operation	AVR1:**
R263	Open	Normal operation	AVR1:**
R264	Open	Normal operation	AVR1:**
R265	Open	Normal operation	AVR1:**
R266	Open	Normal operation	AVR1:**
R267	Open	Normal operation	AVR1:**
R268	Open	Normal operation	AVR1:**
R270	Open	See page 43.	
R271	Open	No Hazard.	AVR1:0
R272	Open	No Hazard.	AVR1:0
R273	Open	See page 43.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
R274	Open	See page 43.	
R275	Open	Normal operation	AVR1:**
R277	Open	Normal operation	AVR1:**
R278	Open	Normal operation	AVR1:**
R279	Open	Normal operation	AVR1:**
R280	Open	Normal operation	AVR1:**
R281	Open	Normal operation	AVR1:**
R282	Open	Normal operation	AVR1:**
R283	Open	Normal operation	AVR1:**
R284	Open	Normal operation	AVR1:**
R285	Open	Normal operation	AVR1:**
R286	Open	Normal operation	AVR1:**
R287	Open	Normal operation	AVR1:**
R288	Open	Normal operation	AVR1:**
R291	Open	Normal operation	AVR1:**
R292 (Only -12, -24)	Open	Normal operation	AVR1:**
R293 (Only -12, -24)	Open	Normal operation	AVR1:**
R294	Open	Normal operation	AVR1:**
R295	Open	Normal operation	AVR1:**
R296	Open	Normal operation	AVR1:**
R501	Open	Normal operation	AVR1:**
R502	Open	Normal operation	AVR1:**
R503	Open	Normal operation	AVR1:**
R504	Open	Normal operation	AVR1:**



F M E A

Component	Mode	Comment	Output Voltage (V)
R505	Open	Normal operation	AVR1:**
R506	Open	Normal operation	AVR1:**
R507	Open	Normal operation	AVR1:**
R508	Open	Normal operation	AVR1:**
R509	Open	Normal operation	AVR1:**
R510	Open	Normal operation	AVR1:**
R511	Open	Normal operation	AVR1:**
R512	Open	Normal operation	AVR1:**
R513	Open	Normal operation	AVR1:**
R514	Open	Normal operation	AVR1:**
R515	Open	Normal operation	AVR1:**
R516	Open	Normal operation	AVR1:**
R517	Open	Normal operation	AVR1:**
R518	Open	Normal operation	AVR1:**
R519	Open	Normal operation	AVR1:**
R520	Open	Normal operation	AVR1:**
R521	Open	Normal operation	AVR1:**
R522	Open	Normal operation	AVR1:**
R523	Open	Normal operation	AVR1:**
R524	Open	Normal operation	AVR1:**
R525	Open	Normal operation	AVR1:**
R526	Open	Normal operation	AVR1:**
R527	Open	Normal operation	AVR1:**
R528	Open	Normal operation	AVR1:**



F M E A

Component	Mode	Comment	Output Voltage (V)
R529	Open	Normal operation	AVR1:**
R530	Open	Normal operation	AVR1:**
R531	Open	Normal operation	AVR1:**
R532	Open	Normal operation	AVR1:**
R533	Open	Normal operation	AVR1:**
R534	Open	Normal operation	AVR1:**
R535	Open	Normal operation	AVR1:**
R536	Open	Normal operation	AVR1:**
R537	Open	Normal operation	AVR1:**
R538	Open	Normal operation	AVR1:**
R539	Open	Normal operation	AVR1:**
R540	Open	Normal operation	AVR1:**
R541	Open	Normal operation	AVR1:**
R542	Open	Normal operation	AVR1:**
R543	Open	Normal operation	AVR1:**
R544	Open	Normal operation	AVR1:**
R545	Open	Normal operation	AVR1:**
R546	Open	Normal operation	AVR1:**
R547	Open	Normal operation	AVR1:**
R548	Open	Normal operation	AVR1:**
R549	Open	Normal operation	AVR1:**
R550	Open	Normal operation	AVR1:**
R551	Open	Normal operation	AVR1:**
R552	Open	Normal operation	AVR1:**



## F M E A

Component	Mode	Comment	Output Voltage (V)
R553	Open	Normal operation	AVR1:**
R554	Open	Normal operation	AVR1:**
R555	Open	Normal operation	AVR1:**
R556	Open	Normal operation	AVR1:**
R557 (Only -24, -36)	Open	Normal operation	AVR1:**
R558 (Only -24, -36)	Open	Normal operation	AVR1:**
R559 (Only -24, -36)	Open	Normal operation	AVR1:**
R560 (Only -24, -36)	Open	Normal operation	AVR1:**
R561 (Only -24, -36)	Open	Normal operation	AVR1:**
R562 (Only -24, -36)	Open	Normal operation	AVR1:**
R563 (Only -24, -36)	Open	Normal operation	AVR1:**
R564 (Only -24, -36)	Open	Normal operation	AVR1:**
R565 (Only -24, -36)	Open	Normal operation	AVR1:**
R566 (Only -24, -36)	Open	Normal operation	AVR1:**
R567 (Only -24, -36)	Open	Normal operation	AVR1:**
R568 (Only -24, -36)	Open	Normal operation	AVR1:**
R569 (Only -24, -36)	Open	Normal operation	AVR1:**
R570 (Only -24, -36)	Open	Normal operation	AVR1:**
R571 (Only -24, -36)	Open	Normal operation	AVR1:**
R572 (Only -24, -36)	Open	Normal operation	AVR1:**
R576	Open	Normal operation	AVR1:**
R577	Open	Normal operation	AVR1:**
R580 (Except:-48)	Open	Normal operation	AVR1:**
R581	Open	Normal operation	AVR1:**



F M E A

Component	Mode	Comment	Output Voltage (V)
R582	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
R583 (Only -48)	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
R584 (Only -48)	Open	Normal operation	AVR1:**
	Short	No Hazard.	AVR1:0
R585 (Only -48)	Open	Normal operation	AVR1:**
	Short	No Hazard.	AVR1:0
R586 (Only -48)	Open	Normal operation	AVR1:**
	Short	No Hazard.	AVR1:0
R587 (Only -48)	Open	No Hazard.	AVR1:0
	Short	Normal operation	AVR1:**
R588 (Only -48)	Open	No Hazard.	AVR1:0
	Short	Normal operation	AVR1:**
R590	Open	Normal operation	AVR1:**
R591	Open	Normal operation	AVR1:**
R592	Open	Normal operation	AVR1:**
R593	Open	Normal operation	AVR1:**
R594	Open	Normal operation	AVR1:**
R595	Open	Normal operation	AVR1:**
R596	Open	Normal operation	AVR1:**
R597	Open	Normal operation	AVR1:**
R598	Open	Normal operation	AVR1:**
R601	Open	Normal operation	AVR1:**

## F M E A

Component	Mode	Comment	Output Voltage (V)
R602	Open	Normal operation	AVR1:**
R603	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
R604	Open	Normal operation	AVR1:**
R605	Open	Normal operation	AVR1:**
R606	Open	No Hazard.	AVR1:0
	Short	Output voltage decreased. No hazard.	AVR1:decreased
R607	Open	No Hazard.	AVR1:0
	Short	Output voltage decreased. No hazard.	AVR1:decreased
R608	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
R609	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
R610	Open	Normal operation	AVR1:**
	Short	Normal operation	AVR1:**
R612	Open	No Hazard.	AVR1:0
	Short	Normal operation	AVR1:**
R701	Open	Normal operation	AVR1:**
R702	Open	Normal operation	AVR1:**
R703	Open	Normal operation	AVR1:**
R704	Open	Normal operation	AVR1:**
R901	Open	Normal operation	AVR1:**
R902	Open	Normal operation	AVR1:**
R903	Open	Normal operation	AVR1:**



F M E A

Component	Mode	Comment	Output Voltage (V)
R904	Open	Normal operation	AVR1:**
R905	Open	Normal operation	AVR1:**
R906	Open	Normal operation	AVR1:**
R907	Open	Normal operation	AVR1:**
R908	Open	Normal operation	AVR1:**
R909	Open	Normal operation	AVR1:**
R910	Open	Normal operation	AVR1:**
R911	Open	Normal operation	AVR1:**
R912	Open	Normal operation	AVR1:**
R913	Open	Normal operation	AVR1:**
R914	Open	Normal operation	AVR1:**
R915	Open	Normal operation	AVR1:**
R916	Open	Normal operation	AVR1:**
R917	Open	Normal operation	AVR1:**
R918	Open	Normal operation	AVR1:**
R919	Open	Normal operation	AVR1:**
R920	Open	Normal operation	AVR1:**
R921	Open	Normal operation	AVR1:**
R922 (Only -12, -36)	Open	Normal operation	AVR1:**
R926	Open	Normal operation	AVR1:**
R928	Open	Normal operation	AVR1:**
R930	Open	Normal operation	AVR1:**
R931	Open	Normal operation	AVR1:**
R932	Open	Normal operation	AVR1:**





F M E A

Component	Mode		Comment	Output Voltage (V)
R933	Open		Normal operation	AVR1:**
R934	Open		Normal operation	AVR1:**
SS101	Open	+	Normal operation	AVR1:**
		-	Normal operation	AVR1:**
		AC	Normal operation	AVR1:**
	Short	+-AC	See page 43.	
		--AC	See page 44.	
SS102	Open	+	Normal operation	AVR1:**
		-	Normal operation	AVR1:**
		AC	Normal operation	AVR1:**
	Short	+-AC	See page 44.	
		--AC	See page 44.	
SS103	Open	Cathod	F101, F102 opened, No hazard.	AVR1:0
		Alternative	Normal operation	AVR1:**
	Short	C-A	See page 44.	
SS501	Open	Cathod	Normal operation	AVR1:**
		Alternative	Normal operation	AVR1:**
	Short	C-A	See page 44.	
SS502	Open	Cathod	Normal operation	AVR1:**
		Alternative	Normal operation	AVR1:**
	Short	C-A	See page 44.	
SS503	Open	Cathod	Normal operation	AVR1:**
		Alternative	Normal operation	AVR1:**
	Short	C-A	See page 44.	



F M E A

Component	Mode		Comment	Output Voltage (V)
SS504	Open	Cathod	Normal operation	AVR1:**
		Alternative	Normal operation	AVR1:**
	Short	C-A	See page 44.	
SS505 (Only -12, -24)	Open	Cathod	Normal operation	AVR1:**
		Alternative	Normal operation	AVR1:**
	Short	C-A	See page 44.	
SS506 (Only -12, -24)	Open	Cathod	Normal operation	AVR1:**
		Alternative	Normal operation	AVR1:**
	Short	C-A	See page 44.	
SS507	Open	Cathod	Normal operation	AVR1:**
		Alternative	Normal operation	AVR1:**
	Short	C-A	See page 44.	
SS508	Open	Cathod	Normal operation	AVR1:**
		Alternative	Normal operation	AVR1:**
	Short	C-A	See page 44.	
T201	Open	A	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
		C	No Hazard.	AVR1:0
		D	No Hazard.	AVR1:0
		1	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		6, 7	F101, F102 opened, No hazard.	AVR1:0
	Short	A-B	See page 44.	
		C-D	See page 44.	



F M E A

Component	Mode		Comment	Output Voltage (V)
T202	Open	1	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		9	No Hazard.	AVR1:0
		10	No Hazard.	AVR1:0
	Short	6-7	No Hazard.	AVR1:0
		9-10	No Hazard.	AVR1:0
THSW201	Open		Normal operation	AVR1:*
	Short		No Hazard.	AVR1:0
TR101	Open	D	R180, R181 opened, No hazard.	AVR1:0
		S	R180, R181 opened, No hazard.	AVR1:0
		G	R180, R181 opened, No hazard.	AVR1:0
	Short	D-S	See page 44.	
		S-G	Normal operation	AVR1:*
		G-D	See page 44.	
TR102	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	See page 44.	
	Short	D-S	See page 44.	
		S-G	R180, R181 opened, No hazard.	AVR1:0
		G-D	See page 44.	
TR103	Open	C	Normal operation	AVR1:*
		E	Normal operation	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
TR103	Open	B	Normal operation	AVR1:**
	Short	C-E	Normal operation	AVR1:**
		E-B	Normal operation	AVR1:**
		B-C	Normal operation	AVR1:**
TR105	Open	C	R180, R181 opened, No hazard.	AVR1:0
		E	R180, R181 opened, No hazard.	AVR1:0
		B	R180, R181 opened, No hazard.	AVR1:0
	Short	C-E	F101, F102 opened, No hazard.	AVR1:0
		E-B	R180, R181 opened, No hazard.	AVR1:0
		B-C	F101, F102 opened, No hazard.	AVR1:0
TR106	Open	C	Normal operation	AVR1:**
		E	Normal operation	AVR1:**
		B	Normal operation	AVR1:**
	Short	C-E	R180, R181 opened, No hazard.	AVR1:0
		E-B	R180, R181 opened, No hazard.	AVR1:0
		B-C	R180, R181 opened, No hazard.	AVR1:0
TR107	Open	C	Normal operation	AVR1:**
		E	Normal operation	AVR1:**
		B	Normal operation	AVR1:**
	Short	C-E	R180, R181 opened, No hazard.	AVR1:0
		E-B	R180, R181 opened, No hazard.	AVR1:0
		B-C	R180, R181 opened, No hazard.	AVR1:0
TR170	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR170	Open	B	No Hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	No Hazard.	AVR1:0
TR180	Open	D	R180, R181 opened, No hazard.	AVR1:0
		S	R180, R181 opened, No hazard.	AVR1:0
		G	R180, R181 opened, No hazard.	AVR1:0
	Short	D-S	Normal operation	AVR1:*
		S-G	R180, R181 opened, No hazard.	AVR1:0
		G-D	See page 44.	
TR201	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	See page 44.	
	Short	D-S	See page 44.	
		S-G	No Hazard.	AVR1:0
		G-D	See page 44.	
TR202	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	See page 44.	
	Short	D-S	See page 45.	
		S-G	No Hazard.	AVR1:0
		G-D	See page 45.	
TR206	Open	C	Normal operation	AVR1:*
		E	Normal operation	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
TR206	Open	B	Normal operation	AVR1:*
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation	AVR1:*
		B-C	No Hazard.	AVR1:0
TR207	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	R205~R208 opened, No hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	F101, F102 opened, No hazard.	AVR1:0
TR208	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	F101, F102 opened, No hazard.	AVR1:0
		B-C	F101, F102 opened, No hazard.	AVR1:0
TR210	Open	1	Normal operation	AVR1:*
		2	Normal operation	AVR1:*
		3	Normal operation	AVR1:*
		4	Normal operation	AVR1:*
		5	Normal operation	AVR1:*
		6	Normal operation	AVR1:*
	Short	1-2	Normal operation	AVR1:*
		2-3	Normal operation	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
TR210	Short	4-5	Normal operation	AVR1:**
		5-6	Normal operation	AVR1:**
TR250	Open	C	See page 45.	
		E	See page 45.	
		B	See page 45.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation	AVR1:**
		B-C	Normal operation	AVR1:**
TR270	Open	C	See page 45.	
		E	See page 45.	
		B	See page 45.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation	AVR1:**
		B-C	Normal operation	AVR1:**
TR501 (Only -48)	Open	C	Normal operation	AVR1:**
		E	Normal operation	AVR1:**
		B	Normal operation	AVR1:**
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation	AVR1:**
		B-C	No Hazard.	AVR1:0
TRC101	Open	T1	R180, R181 opened, No hazard.	AVR1:0
		T2	R180, R181 opened, No hazard.	AVR1:0
		G	R180, R181 opened, No hazard.	AVR1:0
	Short	T1-T2	Normal operation	AVR1:**

## F M E A

Component	Mode		Comment	Output Voltage (V)
TRC101	Short	T2-G	R180, R181 opened, No hazard.	AVR1:0
VR201	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			Output voltage decreased. No hazard.	AVR1:decreased
	Short		Normal operation	AVR1:*
VR601	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			Output voltage decreased. No hazard.	AVR1:decreased
	Short		No Hazard.	AVR1:0
ZD101	Open		See page 45.	
	Short		R180, R181 opened, No hazard.	AVR1:0
ZD102	Open		See page 45.	
	Short		No Hazard.	AVR1:0
ZD103	Open		Normal operation	AVR1:*
	Short		R180, R181 opened, No hazard.	AVR1:0
ZD104	Open		Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
ZD105	Open		Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
ZD170	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
ZD180	Open		No Hazard.	AVR1:*
	Short		R180, R181 opened, No hazard.	AVR1:0
ZD202	Open		Normal operation	AVR1:*
	Short		Normal operation	AVR1:*
ZD210	Open		Normal operation	AVR1:*





F M E A

Component	Mode	Comment	Output Voltage (V)
ZD210	Short	Normal operation	AVR1:*
ZD501	Open	Normal operation	AVR1:*
	Short	No Hazard.	AVR1:0
ZD502 (Except:12)	Open	Normal operation	AVR1:*
	Short	No Hazard.	AVR1:0
ZD601 (Only -36, -48)	Open	No Hazard.	AVR1:0
	Short	Output voltage decreased. No hazard.	AVR1:decreased



## ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C112	Short	R180, R181 opened, No hazard.	AVR1:0
C114	Short	R180, R181 opened, No hazard.	AVR1:0
C125	Short	R180, R181 opened, No hazard.	AVR1:0
C130	Short	F101, F102, TRC101 opened, No hazard.	AVR1:0
C131	Short	F101, F102, TRC101 opened, No hazard.	AVR1:0
C132	Short	F101, F102, TRC101 opened, No hazard.	AVR1:0
C133	Short	F101, F102, TRC101 opened, No hazard.	AVR1:0
C172	Short	R180, R181 opened, No hazard.	AVR1:0
C180	Short	R180, R181, R182 opened, No hazard.	AVR1:0
C201	Short	Output voltage decreased. No hazard.	AVR1:decreased
C202	Short	Output voltage decreased. No hazard.	AVR1:decreased
C203	Short	Output voltage decreased. No hazard.	AVR1:decreased
C204	Short	No Hazard.	AVR1:0
C205	Short	No Hazard.	AVR1:0
C214	Short	No Hazard.	AVR1:0
C220	Short	F201, Output voltage decreased. No hazard. 03, R120, R122 opened, IC101 8-6 short, No hazard.	AVR1:0
C221	Short	F201, Output voltage decreased. No hazard. 03, R120, R122 opened, IC101 8-6 short, No hazard.	AVR1:0
C704	Short	Output voltage decreased. No hazard.	AVR1:decreased
C705	Short	Output voltage decreased. No hazard.	AVR1:decreased
C706	Short	Output voltage decreased. No hazard.	AVR1:decreased
C708	Short	Output voltage decreased. No hazard.	AVR1:decreased
D103	Open	Normal operation	AVR1:**
D104	Open	Normal operation	AVR1:**
D110	Short	F101, F102 opened, No hazard.	AVR1:0

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
D201	Short		Output voltage decreased. No hazard.	AVR1:decreased
D202	Short		Output voltage decreased. No hazard.	AVR1:decreased
D252	Short		F101, F102 opened, No hazard.	AVR1:0
D253	Short		F101, F102 opened, No hazard.	AVR1:0
D272	Short		F101, F102 opened, No hazard.	AVR1:0
D273	Short		F101, F102 opened, No hazard.	AVR1:0
FAN701	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
FAN702	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
L103	Open	12	F101 opened, No hazard.	AVR1:0
		14	No Hazard.	AVR1:*
L104	Open		Normal operation	AVR1:*
L517	Short	1-2 only 24	Output voltage decreased. No hazard.	AVR1:decreased
R122	Open		Normal operation	AVR1:*
R242	Open		Output voltage decreased. No hazard.	AVR1:decreased
R243	Open		Output voltage decreased. No hazard.	AVR1:decreased
R250	Open		No Hazard.	AVR1:0
R253	Open		No Hazard.	AVR1:0
R254	Open		No Hazard.	AVR1:0
R270	Open		No Hazard.	AVR1:0
R273	Open		No Hazard.	AVR1:0
R274	Open		No Hazard.	AVR1:0
SS101	Short	+--AC	F101, F102 opened, No hazard.	AVR1:0

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
SS101	Short	--AC	F101, F102 opened, No hazard.	AVR1:0
SS102	Short	+-AC	F101, F102 opened, No hazard.	AVR1:0
		--AC	F101, F102 opened, No hazard.	AVR1:0
SS103	Short	C-A	F101, F102, TR102, D105, D107 opened, Output voltage decreased. No hazard.	AVR1:0
SS501	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS502	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS503	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS504	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS505	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS506	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS507	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
SS508	Short	C-A	Output voltage decreased. No hazard.	AVR1:decreased
T201	Short	A-B	Output voltage decreased. No hazard.	AVR1:decreased
		C-D	Output voltage decreased. No hazard.	AVR1:decreased
TR101	Short	D-S	R120 opened, IC101 short No hazard.	AVR1:0
		G-D	R120 opened, IC101 short No hazard.	AVR1:0
TR102	Open	G	R120 opened, IC101 short No hazard.	AVR1:0
	Short	D-S	F101, F102 opened, No hazard.	AVR1:0
		G-D	F101, F102 opened, No hazard.	AVR1:0
TR180	Short	G-D	Normal operation	AVR1:*
TR201	Open	G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR202	Open	G	No Hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR202	Short	D-S	No Hazard.	AVR1:0
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR250	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
TR270	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
ZD101	Open		R180, R181 opened, No hazard.	AVR1:0
ZD102	Open		R180, R181 opened, No hazard.	AVR1:0