

ABNORMAL TEST RESULT

OF MODEL PBA1000F

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 : 2/55 ~ 53/55)

(Abnormal Test Result: 54/55 ~ 55/55)

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.	AVR1:0V
C102	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0V
C106	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
C107	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
C108	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
C109	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
C119	Open	Normal operation.	
	Short	See 54 Page.	
C120	Open	Normal operation.	
	Short	See 54 Page.	
C121	Open	Normal operation.	
	Short	See 54 Page.	
C124	Open	Normal operation.	
	Short	Normal operation.	
C125	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
C126	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V

F M E A

Component	Mode	Comment	Output Voltage (V)
C128	Open	Normal operation.	
	Short	Normal operation.	
C129	Open	Normal operation.	
	Short	Normal operation.	
C132	Open	Normal operation.	
	Short	See 54 Page.	
C133	Open	Normal operation.	
	Short	See 54 Page.	
C150	Open	Normal operation.	
	Short	Normal operation.	
C151	Open	Normal operation.	
	Short	Normal operation.	
C152	Open	Normal operation.	
	Short	Normal operation.	
C153	Open	Normal operation.	
	Short	Normal operation.	
C154	Open	Normal operation.	
	Short	R162 opened, No hazard.	AVR1:0V
C155	Open	Normal operation.	
	Short	See 54 Page.	
C156	Open	Normal operation.	
	Short	See 54 Page.	
C157	Open	Normal operation.	
	Short	See 54 Page.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C202	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C203	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C204	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
C205	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
C206	Open	Normal operation.	
	Short	Normal operation.	
C207	Open	Normal operation.	
	Short	Normal operation.	
C208	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
C209	Open	Normal operation.	
	Short	Normal operation.	
C210	Open	No Hazard.	AVR1:0V
	Short	No Hazard.	AVR1:0V
C212	Open	Normal operation.	
	Short	Normal operation.	
C213	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
C214	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C215	Open	Normal operation.	
	Short	Normal operation.	
C216	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
C217	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
C218	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C301	Open	Normal operation.	
	Short	R342 opened, No hazard.	AVR1:0V
C302	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C303	Open	Normal operation.	
	Short	Normal operation.	AVR1:0V
C305	Open	No Hazard.	AVR1:0V
	Short	No Hazard.	AVR1:0V
C306	Open	No Hazard.	AVR1:0V
	Short	Normal operation.	
C307	Open	Normal operation.	
	Short	Normal operation.	
C308	Open	No Hazard.	AVR1:0V
	Short	No Hazard.	AVR1:0V
C309	Open	Normal operation.	
	Short	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C310	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C312	Open	Normal operation.	
	Short	Normal operation.	
C313	Open	Normal operation.	
	Short	Normal operation.	
C318	Open	Normal operation.	
	Short	Normal operation.	
C319	Open	Normal operation.	
	Short	Normal operation.	
C320	Open	Normal operation.	
	Short	Normal operation.	
C321	Open	Normal operation.	
	Short	Normal operation.	
C322	Open	Normal operation.	
	Short	R342 opened, No hazard.	AVR1:0V
C323	Open	Output voltage decreased. No hazard	
	Short	No Hazard.	AVR1:0V
C324	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C327	Open	Normal operation.	
	Short	Normal operation.	
C328	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C330	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C331	Open	Normal operation.	
	Short	Normal operation.	
C332	Open	Normal operation.	
	Short	Normal operation.	
C333	Open	Normal operation.	
	Short	Normal operation.	
C334	Open	Normal operation.	
	Short	Normal operation.	
C350	Open	Normal operation.	
	Short	Normal operation.	
C351	Open	Normal operation.	
	Short	Normal operation.	
C352	Open	Normal operation.	
	Short	Normal operation.	
C354	Open	Normal operation.	
	Short	Normal operation.	
C356	Open	Normal operation.	
	Short	R328 opened, No hazard.	AVR1:0V
C357	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C402	Open	No Hazard.	AVR1:0V
	Short	No Hazard.	AVR1:0V

F M E A

Component	Mode	Comment	Output Voltage (V)
C403	Open	Normal operation.	
	Short	Normal operation.	
C404	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C405	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C406	Open	Normal operation.	
	Short	Normal operation.	
C407	Open	Normal operation.	
	Short	Normal operation.	
C409	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C410	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C411	Open	Normal operation.	
	Short	Normal operation.	
C504	Open	No Hazard.	AVR1:0V
	Short	Normal operation.	
C505	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C506	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C507	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V



F M E A

Component	Mode	Comment	Output Voltage (V)
C508	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C509	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C510	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C511	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C512	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C515	Open	Normal operation.	
	Short	Normal operation.	
C517	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C519	Open	Normal operation.	
	Short	Normal operation.	
C524	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C530	Open	Normal operation.	
	Short	Normal operation.	
C531	Open	Normal operation.	
	Short	Normal operation.	
C532	Open	only 15, 24, 36, 48V	Normal operation.
	Short	only 15, 24, 36, 48V	Normal operation.

F M E A

Component	Mode		Comment	Output Voltage (V)
C533	Open	only 15, 24, 36, 48V	Normal operation.	
	Short	only 15, 24, 36, 48V	Normal operation.	
C534	Open		Normal operation.	
	Short		Normal operation.	
C535	Open		Normal operation.	
	Short		Normal operation.	
C536	Open	only 24, 36, 48V	Normal operation.	
	Short	only 24, 36, 48V	Normal operation.	
C537	Open	only 24, 36, 48V	Normal operation.	
	Short	only 24, 36, 48V	Normal operation.	
C538	Open	only 24, 36, 48V	Normal operation.	
	Short	only 24, 36, 48V	Normal operation.	
C539	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C540	Open	only 24, 36, 48V	Normal operation.	
	Short	only 24, 36, 48V	Normal operation.	
C541	Open	only 15, 24, 36, 48V	Normal operation.	
	Short	only 15, 24, 36, 48V	Normal operation.	
C542	Open	only 15, 24, 36, 48V	Normal operation.	
	Short	only 15, 24, 36, 48V	Normal operation.	
C543	Open		Normal operation.	
	Short		Normal operation.	
C544	Open		Normal operation.	
	Short		Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
C545	Open	only 3.3, 5, 48V	Normal operation.	
	Short	only 3.3, 5, 48V	Normal operation.	
C546	Open	only 3.3, 5, 48V	Normal operation.	
	Short	only 3.3, 5, 48V	Normal operation.	
C547	Open	only 3.3, 5, 48V	Normal operation.	
	Short	only 3.3, 5, 48V	Normal operation.	
C548	Open	only 3.3, 5, 48V	Normal operation.	
	Short	only 3.3, 5, 48V	Normal operation.	
C549	Open	only 3.3, 5, 48V	Normal operation.	
	Short	only 3.3, 5, 48V	Normal operation.	
C550	Open		Normal operation.	
	Short		Normal operation.	
C551	Open		Normal operation.	
	Short		Normal operation.	
C552	Open		Normal operation.	
	Short		Normal operation.	
C553	Open		Normal operation.	
	Short		Normal operation.	
C554	Open		Normal operation.	
	Short		Normal operation.	
C555	Open		Normal operation.	
	Short		Normal operation.	
C556	Open		Normal operation.	
	Short		Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C557	Open	Normal operation.	
	Short	Normal operation.	
C558	Open	Normal operation.	
	Short	Normal operation.	
C559	Open	Normal operation.	
	Short	Normal operation.	
C560	Open	Normal operation.	
	Short	Normal operation.	
C561	Open	Normal operation.	
	Short	Normal operation.	
C568	Open	Normal operation.	
	Short	Normal operation.	
C569	Open	Normal operation.	
	Short	Normal operation.	
C572	Open	Normal operation.	
	Short	Normal operation.	
C573	Open	Normal operation.	
	Short	Normal operation.	
C576	Open	Normal operation.	
	Short	Normal operation.	
C577	Open	Normal operation.	
	Short	Normal operation.	
C579	Open	Normal operation.	
	Short	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C580	Open	Normal operation.	
	Short	Normal operation.	
C581	Open	Normal operation.	
	Short	Normal operation.	
C582	Open	Normal operation.	
	Short	Normal operation.	
C583	Open	only 3.3, 5, 48V Normal operation.	
	Short	only 3.3, 5, 48V Normal operation.	
C601	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C602	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C604	Open	Normal operation.	
	Short	Normal operation.	
C605	Open	Output voltage decreased. No hazard	
	Short	Output voltage decreased. No hazard	
C606	Open	Normal operation.	
	Short	Output voltage decreased. No hazard	
C607	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C608	Open	Normal operation.	
	Short	Normal operation.	
C609	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C610	Open	Normal operation.	
	Short	Output voltage decreased. No hazard	
C611	Open	Normal operation.	
	Short	Normal operation.	
C612	Open	Normal operation.	
	Short	Normal operation.	
C613	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C614	Open	Normal operation.	
	Short	Normal operation.	
C615	Open	Normal operation.	
	Short	Normal operation.	
C616	Open	Normal operation.	
	Short	Normal operation.	
C617	Open	Normal operation.	
	Short	Normal operation.	
C620	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C621	Open	Normal operation.	
	Short	Output voltage decreased. No hazard	
C622	Open	Normal operation.	
	Short	Normal operation.	
C623	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C624	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C625	Open	Normal operation.	
	Short	Output voltage decreased. No hazard	
C626	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C628	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C629	Open	Normal operation.	
	Short	Normal operation.	
C631	Open	Normal operation.	
	Short	Normal operation.	
C632	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C634	Open	Normal operation.	
	Short	Normal operation.	
C701	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C703	Open	Normal operation.	
	Short	Normal operation.	
C704	Open	Normal operation.	
	Short	Normal operation.	
C705	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V

F M E A

Component	Mode	Comment	Output Voltage (V)
C709	Open	Normal operation.	
	Short	Normal operation.	
C710	Open	Normal operation.	
	Short	Normal operation.	
C711	Open	Normal operation.	
	Short	Normal operation.	
C712	Open	Normal operation.	
	Short	Normal operation.	
C713	Open	Normal operation.	
	Short	Normal operation.	
C714	Open	Normal operation.	
	Short	Normal operation.	
D101	Open	R114orR115 opened, No hazard.	AVR1:0V
	Short	R114orR115 opened, No hazard.	AVR1:0V
D102	Open	Normal operation.	
	Short	R114orR115 opened, No hazard.	AVR1:0V
D107	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D109	Open	R114orR115 opened, No hazard.	AVR1:0V
	Short	R114orR115 opened, No hazard.	AVR1:0V
D130	Open	Normal operation.	
	Short	R164orR165 opened, No hazard.	AVR1:0V
D201	Open	No Hazard.	AVR1:0V
	Short	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
D202	Open	Normal operation.	
	Short	Normal operation.	
D203	Open	Normal operation.	
	Short	Normal operation.	
D205	Open	Normal operation.	
	Short	Normal operation.	
D207	Open	Normal operation.	
	Short	Normal operation.	
D209	Open	Normal operation.	
	Short	Normal operation.	
D301	Open	Normal operation.	
	Short	Normal operation.	
D302	Open	Normal operation.	
	Short	Normal operation.	
D303	Open	Normal operation.	
	Short	Normal operation.	
D304	Open	Normal operation.	
	Short	Normal operation.	
D305	Open	Normal operation.	
	Short	Normal operation.	
D306	Open	No Hazard.	AVR1:0V
	Short	See 54 Page.	
D307	Open	No Hazard.	AVR1:0V
	Short	See 54 Page.	



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Component	Mode	Comment	Output Voltage (V)
D308	Open	Normal operation.	
	Short	See 54 Page.	
D309	Open	Normal operation.	
	Short	See 54 Page.	
D310	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D401	Open	No Hazard.	AVR1:0V
	Short	R410 opened, No hazard.	AVR1:0V
D402	Open	R401 opened, No hazard.	AVR1:0V
	Short	No Hazard.	AVR1:0V
D403	Open	Normal operation.	
	Short	See 54 Page.	
D404	Open	Normal operation.	
	Short	Normal operation.	
D405	Open	No Hazard.	AVR1:0V
	Short	Normal operation.	
D501	Open	No Hazard.	AVR1:0V
	Short	Normal operation.	
D502	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D601	Open	No Hazard.	AVR1:0V
	Short	No Hazard.	AVR1:0V
D603	Open	No Hazard.	AVR1:0V
	Short	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
D605	Open	No Hazard.	AVR1:0V
	Short	Normal operation.	
D606	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D607	Open	Normal operation.	
	Short	Normal operation.	
D608	Open	Normal operation.	
	Short	Normal operation.	
D609	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D610	Open	Normal operation.	
	Short	Output voltage decreased. No hazard	
D611	Open	Normal operation.	
	Short	Normal operation.	
D612	Open	Normal operation.	
	Short	Normal operation.	
D613	Open	Normal operation.	
	Short	Normal operation.	
D614	Open	Normal operation.	
	Short	Normal operation.	
D615	Open	Normal operation.	
	Short	Normal operation.	
D621	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
D622	Open	Normal operation.	
	Short	Normal operation.	
D623	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D701	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D702	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D704	Open	Normal operation.	
	Short	Normal operation.	
D705	Open	Normal operation.	
	Short	Normal operation.	
D706	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D707	Open	Normal operation.	
	Short	Normal operation.	
F101	Open	No Hazard.	AVR1:0V
	Short	Normal operation.	
IC201	Open	1	Normal operation.
		2	Normal operation.
		3	Normal operation.
		4	Normal operation.
		5	Normal operation.
		6	Normal operation.

F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	7	R114orR115 opened, No hazard.	AVR1:0V
		8	R114orR115 opened, No hazard.	AVR1:0V
		9	No Hazard.	AVR1:0V
		10	No Hazard.	AVR1:0V
		11	Normal operation.	
		12	No Hazard.	AVR1:0V
		13	R114orR115 opened, No hazard.	AVR1:0V
		14	Normal operation.	
		15	R114orR115 opened, No hazard.	AVR1:0V
		16	R114orR115 opened, No hazard.	AVR1:0V
	Short	1-2	R114orR115 opened, No hazard.	AVR1:0V
		2-3	Normal operation.	
		3-4	Normal operation.	
		4-5	R114orR115 opened, No hazard.	AVR1:0V
		5-6	R114orR115 opened, No hazard.	AVR1:0V
		6-7	Normal operation.	
		7-8	R114orR115 opened, No hazard.	AVR1:0V
		9-10	Normal operation.	
		10-11	R114orR115 opened, No hazard.	AVR1:0V
		11-12	Normal operation.	
		12-13	Normal operation.	
		13-14	R114orR115 opened, No hazard.	AVR1:0V
		14-15	R114orR115 opened, No hazard.	AVR1:0V
		15-16	R114orR115 opened, No hazard.	AVR1:0V

F M E A

Component	Mode	Comment	Output Voltage (V)	
IC301	Open	1	No Hazard.	AVR1:0V
		2	No Hazard.	AVR1:0V
		3	No Hazard.	AVR1:0V
		4	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	
		7	Normal operation.	
		8	Normal operation.	
		9	Normal operation.	
		10	No Hazard.	AVR1:0V
		11	No Hazard.	AVR1:0V
		12	No Hazard.	AVR1:0V
		13	Output voltage decreased. No hazard	
		14	Normal operation.	
		15	Normal operation.	
		16	Normal operation.	
		17	No Hazard.	AVR1:0V
		18	Output voltage decreased. No hazard	
		19	Output voltage decreased. No hazard	
		20	No Hazard.	AVR1:0V
	Short	1-2	No Hazard.	AVR1:0V
		2-3	No Hazard.	AVR1:0V
		3-4	Normal operation.	
		4-5	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Short	5-6	Normal operation.	
		6-7	Normal operation.	
		7-8	Normal operation.	
		8-9	Normal operation.	
		9-10	No Hazard.	AVR1:0V
		11-12	No Hazard.	AVR1:0V
		12-13	No Hazard.	AVR1:0V
		13-14	Output voltage decreased. No hazard	
		14-15	Normal operation.	
		15-16	Normal operation.	
		16-17	Normal operation.	
		17-18	Normal operation.	
		18-19	Normal operation.	
		19-20	R342 opened, No hazard.	AVR1:0V
IC401	Open	1	No Hazard.	AVR1:0V
		2	No Hazard.	AVR1:0V
		3	No Hazard.	AVR1:0V
	Short	1-2	No Hazard.	AVR1:0V
		2-3	See 54 Page.	
IC601	Open	1	No Hazard.	AVR1:0V
		2	No Hazard.	AVR1:0V
		3	No Hazard.	AVR1:0V
	Short	1-2	No Hazard.	AVR1:0V
		2-3	No Hazard.	AVR1:0V

F M E A

Component	Mode		Comment	Output Voltage (V)
IC602	Open	1	No Hazard.	AVR1:0V
		2	Normal operation.	
		3	No Hazard.	AVR1:0V
		4	No Hazard.	AVR1:0V
		5	No Hazard.	AVR1:0V
		6	No Hazard.	AVR1:0V
		7	No Hazard.	AVR1:0V
		8	No Hazard.	AVR1:0V
	Short	1-2	No Hazard.	AVR1:0V
		2-3	No Hazard.	AVR1:0V
		3-4	No Hazard.	AVR1:0V
		5-6	No Hazard.	AVR1:0V
		6-7	No Hazard.	AVR1:0V
		7-8	No Hazard.	AVR1:0V
IC603	Open	K	No Hazard.	AVR1:0V
		A	No Hazard.	AVR1:0V
		R	No Hazard.	AVR1:0V
	Short	A-K	No Hazard.	AVR1:0V
		K-R	No Hazard.	AVR1:0V
		A-R	No Hazard.	AVR1:0V
IC604	Open	1	Normal operation.	
		2	No Hazard.	AVR1:0V
		3	Normal operation.	
		4	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)	
IC604	Open	5	Normal operation.		
		6	No Hazard.	AVR1:0V	
		7	Normal operation.		
		8	Normal operation.		
		9	No Hazard.	AVR1:0V	
		10	Normal operation.		
		11	Normal operation.		
		12	Normal operation.		
		13	Normal operation.		
		14	Normal operation.		
		Short	1-2	Normal operation.	
			2-3	Normal operation.	
			3-4	No Hazard.	AVR1:0V
			4-5	No Hazard.	AVR1:0V
	5-6		No Hazard.	AVR1:0V	
	6-7		Normal operation.		
	8-9		No Hazard.	AVR1:0V	
	9-10		No Hazard.	AVR1:0V	
	10-11		Normal operation.		
	11-12		Normal operation.		
	IC701	Open	1	Normal operation.	
			2	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC701	Open	3	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
L101	Open		No Hazard.	AVR1:0V
	Short		F101 opened, No hazard.	AVR1:0V
L102	Open		No Hazard.	AVR1:0V
	Short		F101 opened, No hazard.	AVR1:0V
L103	Open	2, 3, 4	No Hazard.	AVR1:0V
		10, 11, 12	No Hazard.	AVR1:0V
		5	R114orR115 opened, No hazard.	AVR1:0V
		6	R114orR115 opened, No hazard.	AVR1:0V
	Short	2, 3, 4-5	R114orR115 opened, No hazard.	AVR1:0V
		5-6	R114orR115 opened, No hazard.	AVR1:0V
L104	Open		R114orR115 opened, No hazard.	AVR1:0V
	Short		Normal operation.	
L105	Open		R114orR115 opened, No hazard.	AVR1:0V
	Short		Normal operation.	
L106	Open		R114orR115 opened, No hazard.	AVR1:0V
	Short		Normal operation.	
L111	Open		Normal operation.	
	Short		Normal operation.	
L301	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	
L304	Open		No Hazard.	AVR1:0V



F M E A

Component	Mode		Comment	Output Voltage (V)
L304	Short		Normal operation.	
L308	Open		Normal operation.	
	Short		Normal operation.	
L501	Open	A	No Hazard.	AVR1:0V
		B	No Hazard.	AVR1:0V
	Short	A-B	No Hazard.	AVR1:0V
L502	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	
L503	Open		Normal operation.	
	Short		Normal operation.	
L530	Open		Normal operation.	
	Short		Normal operation.	
LED601	Open		Normal operation.	
	Short		Normal operation.	
PC301	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	
		C-E	No Hazard.	AVR1:0V
PC302	Open	A, K	No Hazard.	AVR1:0V
		C, E	No Hazard.	AVR1:0V
	Short	A-K	No Hazard.	AVR1:0V
		C-E	No Hazard.	AVR1:0V
PC601	Open	A, K	No Hazard.	AVR1:0V
		C, E	No Hazard.	AVR1:0V

F M E A

Component	Mode		Comment	Output Voltage (V)
PC601	Short	A-K	No Hazard.	AVR1:0V
		C-E	Normal operation.	
PC602	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	
		C-E	No Hazard.	AVR1:0V
PC702	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	
		C-E	Normal operation.	
SCR101	Open	K	R114orR115 opened, No hazard.	AVR1:0V
		A	R114orR115 opened, No hazard.	AVR1:0V
		G	R114orR115 opened, No hazard.	AVR1:0V
	Short	K-A	Normal operation.	
		K-G	R114orR115 opened, No hazard.	AVR1:0V
		A-G	R114orR115 opened, No hazard.	AVR1:0V
SCR102	Open	K	R114orR115 opened, No hazard.	AVR1:0V
		A	R114orR115 opened, No hazard.	AVR1:0V
		G	R114orR115 opened, No hazard.	AVR1:0V
	Short	K-A	Normal operation.	
		K-G	R114orR115 opened, No hazard.	AVR1:0V
		A-G	R114orR115 opened, No hazard.	AVR1:0V
SS101	Open	+	Normal operation.	
		-	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
SS101	Open	AC	Normal operation.	
	Short	+AC	F101 opened, No hazard.	AVR1:0V
		--AC	F101 opened, No hazard.	AVR1:0V
SS102	Open	+	Normal operation.	
		-	Normal operation.	
		AC	Normal operation.	
	Short	+AC	F101 opened, No hazard.	AVR1:0V
		--AC	F101 opened, No hazard.	AVR1:0V
SS103	Open		No Hazard.	AVR1:0V
	Short		See 54 Page.	
SS501	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
SS502	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
SS503	Open	only 3.3, 5, 48V	Normal operation.	
	Short	only 3.3, 5, 48V	No Hazard.	AVR1:0V
SS504	Open	only 3.3, 5, 48V	Normal operation.	
	Short	only 3.3, 5, 48V	No Hazard.	AVR1:0V
SS505	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
SS506	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
SS507	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V



F M E A

Component	Mode		Comment	Output Voltage (V)
SS508	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
T101	Open	1	R114orR115 opened, No hazard.	AVR1:0V
		2	R114orR115 opened, No hazard.	AVR1:0V
		3	Normal operation.	
		4	Normal operation.	
	Short	1-2	Normal operation.	
		3-4	Normal operation.	
T102	Open	1	R114orR115 opened, No hazard.	AVR1:0V
		2	R114orR115 opened, No hazard.	AVR1:0V
		3	Normal operation.	
		4	Normal operation.	
	Short	1-2	Normal operation.	
		3-4	R114orR115 opened, No hazard.	AVR1:0V
T103	Open	1	No Hazard.	AVR1:0V
		3	No Hazard.	AVR1:0V
		6	No Hazard.	AVR1:0V
		7	No Hazard.	AVR1:0V
		9	No Hazard.	AVR1:0V
		10	No Hazard.	AVR1:0V
	Short	1-3	No Hazard.	AVR1:0V
		6-7	No Hazard.	AVR1:0V
		9-10	No Hazard.	AVR1:0V
T104	Open	1	No Hazard.	AVR1:0V

F M E A

Component	Mode		Comment	Output Voltage (V)
T104	Open	3	No Hazard.	AVR1:0V
		4	Normal operation.	
		7	Normal operation.	
	Short	1-3	Normal operation.	
		4-7	Normal operation.	
T105	Open	1	No Hazard.	AVR1:0V
		2	No Hazard.	AVR1:0V
		3	Normal operation.	
		4	Normal operation.	
	Short	1-2	Normal operation.	
		3-4	Normal operation.	
T301	Open	A	No Hazard.	AVR1:0V
		B	No Hazard.	AVR1:0V
		C, E	No Hazard.	AVR1:0V
		D, F	No Hazard.	AVR1:0V
		4	No Hazard.	AVR1:0V
		6	No Hazard.	AVR1:0V
	Short	A-B	No Hazard.	AVR1:0V
		C, E-D, F	No Hazard.	AVR1:0V
		4-6	No Hazard.	AVR1:0V
T401	Open	5	R410 opened, No hazard.	AVR1:0V
		6	R410 opened, No hazard.	AVR1:0V
		7	No Hazard.	AVR1:0V
		9	No Hazard.	AVR1:0V

F M E A

Component	Mode		Comment	Output Voltage (V)
T401	Short	5-6	No Hazard.	AVR1:0V
		7-9	R410 opened, No hazard.	AVR1:0V
THSW301	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
THSW302	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
TR101	Open	D	See 54 Page.	
		S	See 54 Page.	
		G	See 54 Page.	
	Short	D-S	See 54 Page.	
		S-G	See 54 Page.	
		G-D	See 54 Page.	
TR102	Open	D	See 54 Page.	
		S	See 54 Page.	
		G	See 54 Page.	
	Short	D-S	See 55 Page.	
		S-G	See 55 Page.	
		G-D	See 55 Page.	
TR103	Open	D	See 55 Page.	
		S	See 55 Page.	
		G	See 55 Page.	
	Short	D-S	See 55 Page.	
		S-G	See 55 Page.	
		G-D	See 55 Page.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR109	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0V
		E-B	No Hazard.	AVR1:0V
		B-C	R114orR115 opened, No hazard.	AVR1:0V
TR110	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0V
		E-B	No Hazard.	AVR1:0V
		B-C	R114orR115 opened, No hazard.	AVR1:0V
TR111	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0V
		E-B	No Hazard.	AVR1:0V
		B-C	R114orR115 opened, No hazard.	AVR1:0V
TR201	Open	C	R114orR115 opened, No hazard.	AVR1:0V
		E	R114orR115 opened, No hazard.	AVR1:0V
		B	R114orR115 opened, No hazard.	AVR1:0V
	Short	C-E	Normal operation.	
		E-B	R114orR115 opened, No hazard.	AVR1:0V
		B-C	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR202	Open	C	R114orR115 opened, No hazard.	AVR1:0V
		E	R114orR115 opened, No hazard.	AVR1:0V
		B	R114orR115 opened, No hazard.	AVR1:0V
	Short	C-E	Normal operation.	
		E-B	R114orR115 opened, No hazard.	AVR1:0V
		B-C	Normal operation.	
TR203	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR204	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR206	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	R114orR115 opened, No hazard.	AVR1:0V
		E-B	R114orR115 opened, No hazard.	AVR1:0V
		B-C	R114orR115 opened, No hazard.	AVR1:0V



F M E A

Component	Mode		Comment	Output Voltage (V)
TR305	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0V
		E-B	No Hazard.	AVR1:0V
		B-C	No Hazard.	AVR1:0V
TR306	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0V
		E-B	No Hazard.	AVR1:0V
		B-C	No Hazard.	AVR1:0V
TR307	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0V
		E-B	No Hazard.	AVR1:0V
		B-C	No Hazard.	AVR1:0V
TR308	Open	D	See 55 Page.	
		S	See 55 Page.	
		G	See 55 Page.	
	Short	D-S	See 55 Page.	
		S-G	See 55 Page.	
		G-D	See 55 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR311	Open	D	See 55 Page.	
		S	See 55 Page.	
		G	See 55 Page.	
	Short	D-S	See 55 Page.	
		S-G	See 55 Page.	
		G-D	See 55 Page.	
TR401	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR601	Open	C	No Hazard.	AVR1:0V
		E	No Hazard.	AVR1:0V
		B	No Hazard.	AVR1:0V
	Short	C-E	Normal operation.	
		E-B	No Hazard.	AVR1:0V
		B-C	Normal operation.	
TR610	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR611	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR620	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0V
		E-B	No Hazard.	AVR1:0V
		B-C	No Hazard.	AVR1:0V
TR621	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR622	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR623	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR624	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR704	Open	C	No Hazard.	AVR1:0V
		E	No Hazard.	AVR1:0V
		B	No Hazard.	AVR1:0V
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR705	Open	C	No Hazard.	AVR1:0V
		E	No Hazard.	AVR1:0V
		B	No Hazard.	AVR1:0V
	Short	C-E	Normal operation.	
		E-B	No Hazard.	AVR1:0V
		B-C	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR706	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
VR601	Open	brush	Output voltage decreased. No hazard	
			No Hazard.	AVR1:0V
	Short		Output voltage decreased. No hazard	
VR602	Open	brush only 48V	Output voltage decreased. No hazard	
		only 48V	Output voltage decreased. No hazard	
	Short	only 48V	Output voltage decreased. No hazard	
ZD201	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	
ZD203	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
ZD301	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	
ZD302	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
ZD303	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
ZD401	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
ZD402	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
ZD403	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	
ZD501	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
ZD502	Open	only 24, 36, 48V	Normal operation.	
	Short	only 24, 36, 48V	No Hazard.	AVR1:0V
ZD601	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
R101	Open		Normal operation.	
R102	Open		Normal operation.	
R103	Open		Normal operation.	
R104	Open		Normal operation.	
R105	Open		Normal operation.	
R106	Open		Normal operation.	
R108	Open		Normal operation.	
R109	Open		Normal operation.	
R110	Open		R114orR115 opened, No hazard.	AVR1:0V
R111	Open		R114orR115 opened, No hazard.	AVR1:0V
R112	Open		R114orR115 opened, No hazard.	AVR1:0V
R113	Open		R114orR115 opened, No hazard.	AVR1:0V
R114	Open		Normal operation.	
R115	Open		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R118	Open	R114orR115 opened, No hazard.	AVR1:0V
R119	Open	R114orR115 opened, No hazard.	AVR1:0V
R120	Open	R114orR115 opened, No hazard.	AVR1:0V
R122	Open	Normal operation.	
R123	Open	Normal operation.	
R125	Open	Normal operation.	
R128	Open	Normal operation.	
R129	Open	Normal operation.	
R130	Open	Normal operation.	
R131	Open	Normal operation.	
R150	Open	Normal operation.	
R151	Open	Normal operation.	
R152	Open	Normal operation.	
R153	Open	Normal operation.	
R154	Open	Normal operation.	
R155	Open	Normal operation.	
R156	Open	R114orR115 opened, No hazard.	AVR1:0V
R157	Open	R114orR115 opened, No hazard.	AVR1:0V
R158	Open	R114orR115 opened, No hazard.	AVR1:0V
R159	Open	R114orR115 opened, No hazard.	AVR1:0V
R160	Open	Normal operation.	
R161	Open	Normal operation.	
R162	Open	Normal operation.	
R163	Open	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R164	Open	Normal operation.	
R165	Open	Normal operation.	
R201	Open	No Hazard.	AVR1:0V
R202	Open	No Hazard.	AVR1:0V
R203	Open	No Hazard.	AVR1:0V
R204	Open	Normal operation.	
R205	Open	Normal operation.	
R206	Open	Normal operation.	
R207	Open	No Hazard.	AVR1:0V
R208	Open	Normal operation.	
R209	Open	Normal operation.	
R212	Open	Normal operation.	
R213	Open	No Hazard.	AVR1:0V
R214	Open	No Hazard.	AVR1:0V
R215	Open	Normal operation.	
R216	Open	No Hazard.	AVR1:0V
R217	Open	Normal operation.	
R218	Open	Normal operation.	
R219	Open	Normal operation.	
R220	Open	Normal operation.	
R221	Open	Normal operation.	
R222	Open	Normal operation.	
R223	Open	Normal operation.	
R224	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R225	Open	Normal operation.	
R226	Open	Normal operation.	
R227	Open	R114orR115 opened, No hazard.	AVR1:0V
R228	Open	R114orR115 opened, No hazard.	AVR1:0V
R229	Open	Normal operation.	
R230	Open	No Hazard.	AVR1:0V
R231	Open	Normal operation.	
R232	Open	Normal operation.	
R233	Open	Normal operation.	
R234	Open	Normal operation.	
R235	Open	Normal operation.	
R236	Open	Normal operation.	
R237	Open	Normal operation.	
R238	Open	Normal operation.	
R239	Open	R114orR115 opened, No hazard.	AVR1:0V
R240	Open	No Hazard.	AVR1:0V
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	R114orR115 opened, No hazard.	AVR1:0V
R249	Open	No Hazard.	AVR1:0V

F M E A

Component	Mode	Comment	Output Voltage (V)
R270	Open	No Hazard.	AVR1:0V
R271	Open	No Hazard.	AVR1:0V
R301	Open	Normal operation.	
R302	Open	Normal operation.	
R303	Open	No Hazard.	AVR1:0V
R304	Open	No Hazard.	AVR1:0V
R305	Open	Normal operation.	
R306	Open	Normal operation.	
R307	Open	No Hazard.	AVR1:0V
R308	Open	Output voltage decreased. No hazard	
R309	Open	No Hazard.	AVR1:0V
R310	Open	Normal operation.	
R312	Open	Normal operation.	
R313	Open	Normal operation.	
R314	Open	No Hazard.	AVR1:0V
R315	Open	No Hazard.	AVR1:0V
R316	Open	Output voltage decreased. No hazard	
R317	Open	Normal operation.	
R318	Open	No Hazard.	AVR1:0V
R319	Open	No Hazard.	AVR1:0V
R320	Open	No Hazard.	AVR1:0V
R322	Open	No Hazard.	AVR1:0V
R323	Open	No Hazard.	AVR1:0V
R325	Open	No Hazard.	AVR1:0V

F M E A

Component	Mode	Comment	Output Voltage (V)
R326	Open	Normal operation.	
R327	Open	Normal operation.	
R328	Open	Normal operation.	
R329	Open	Normal operation.	
R331	Open	Normal operation.	
R332	Open	Normal operation.	
R342	Open	No Hazard.	AVR1:0V
R345	Open	Normal operation.	
R346	Open	Normal operation.	
R348	Open	Normal operation.	
R349	Open	Normal operation.	
R370	Open	Normal operation.	
R371	Open	Normal operation.	
R372	Open	No Hazard.	AVR1:0V
R373	Open	No Hazard.	AVR1:0V
R374	Open	No Hazard.	AVR1:0V
R375	Open	No Hazard.	AVR1:0V
R376	Open	Normal operation.	
R377	Open	Normal operation.	
R378	Open	Normal operation.	
R379	Open	Normal operation.	
R401	Open	No Hazard.	AVR1:0V
R402	Open	No Hazard.	AVR1:0V
R403	Open	No Hazard.	AVR1:0V



F M E A

Component	Mode	Comment	Output Voltage (V)
R404	Open	Normal operation.	
R405	Open	Normal operation.	
R406	Open	Normal operation.	
R407	Open	Normal operation.	
R408	Open	Normal operation.	
R409	Open	Normal operation.	
R410	Open	No Hazard.	AVR1:0V
R413	Open	Normal operation.	
R414	Open	Normal operation.	
R415	Open	No Hazard.	AVR1:0V
R416	Open	Normal operation.	
R506	Open	No Hazard.	AVR1:0V
R507	Open	Normal operation.	
R508	Open	Normal operation.	
R509	Open	Normal operation.	
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.	
R517	Open	except 24, 36, 48V	Normal operation.
R518	Open	No Hazard.	AVR1:0V

F M E A

Component	Mode		Comment	Output Voltage (V)
R531	Open		Normal operation.	
R532	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.	
R567	Open		Normal operation.	
R568	Open		Normal operation.	
R569	Open		Normal operation.	
R570	Open		Normal operation.	
R571	Open		Normal operation.	
R572	Open		Normal operation.	
R573	Open		Normal operation.	
R574	Open		Normal operation.	
R575	Open		Normal operation.	
R576	Open		Normal operation.	
R577	Open		Normal operation.	
R578	Open		Normal operation.	
R579	Open		Normal operation.	
R580	Open	only 3.3, 5, 48V	Normal operation.	
R581	Open	only 3.3, 5, 48V	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
R582	Open	only 3.3, 5, 48V	Normal operation.	
R583	Open	only 3.3, 5, 48V	Normal operation.	
R584	Open	only 3.3, 5, 48V	Normal operation.	
R585	Open	only 3.3, 5, 48V	Normal operation.	
R586	Open	only 3.3, 5, 48V	Normal operation.	
R587	Open	only 3.3, 5, 48V	Normal operation.	
R588	Open	only 3.3, 5, 48V	Normal operation.	
R589	Open	only 3.3, 5, 48V	Normal operation.	
R590	Open		Normal operation.	
R591	Open		Normal operation.	
R592	Open		Normal operation.	
R593	Open		Normal operation.	
R594	Open		Normal operation.	
R595	Open		Normal operation.	
R596	Open		Normal operation.	
R597	Open		Normal operation.	
R598	Open		Normal operation.	
R599	Open		Normal operation.	
R601	Open		Normal operation.	
R602	Open		No Hazard.	AVR1:0V
R603	Open		No Hazard.	AVR1:0V
R604	Open		Normal operation.	
R605	Open		Normal operation.	
R606	Open		No Hazard.	AVR1:0V



F M E A

Component	Mode	Comment	Output Voltage (V)
R607	Open	No Hazard.	AVR1:0V
R608	Open	Normal operation.	
R609	Open	No Hazard.	AVR1:0V
R610	Open	Normal operation.	
R611	Open	Normal operation.	
R612	Open	Normal operation.	
R613	Open	Normal operation.	
R614	Open	Normal operation.	
R615	Open	Normal operation.	
R616	Open	No Hazard.	AVR1:0V
R617	Open	No Hazard.	AVR1:0V
R618	Open	No Hazard.	AVR1:0V
R619	Open	No Hazard.	AVR1:0V
R620	Open	No Hazard.	AVR1:0V
R621	Open	Normal operation.	
R622	Open	No Hazard.	AVR1:0V
R623	Open	No Hazard.	AVR1:0V
R624	Open	No Hazard.	AVR1:0V
R625	Open	Output voltage decreased. No hazard	
R626	Open	No Hazard.	AVR1:0V
R627	Open	No Hazard.	AVR1:0V
R628	Open	No Hazard.	AVR1:0V
R629	Open	Normal operation.	
R630	Open	No Hazard.	AVR1:0V

F M E A

Component	Mode	Comment	Output Voltage (V)
R631	Open	Normal operation.	
R632	Open	Normal operation.	
R633	Open	No Hazard.	AVR1:0V
R634	Open	Normal operation.	
R635	Open	Normal operation.	
R636	Open	Normal operation.	
R637	Open	Output voltage decreased. No hazard	
R638	Open	Output voltage decreased. No hazard	
R639	Open	Output voltage decreased. No hazard	
R640	Open	Output voltage decreased. No hazard	
R641	Open	Output voltage decreased. No hazard	
R647	Open	No Hazard.	AVR1:0V
R648	Open	No Hazard.	AVR1:0V
R650	Open	Normal operation.	
R651	Open	Normal operation.	
R652	Open	Normal operation.	
R653	Open	No Hazard.	AVR1:0V
R654	Open	Normal operation.	
R655	Open	Normal operation.	
R656	Open	Normal operation.	
R657	Open	Normal operation.	
R658	Open	No Hazard.	AVR1:0V
R659	Open	Normal operation.	
R660	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R661	Open	Normal operation.	
R662	Open	Normal operation.	
R663	Open except 48V	Output voltage decreased. No hazard	
R665	Open	Normal operation.	
R666	Open	Normal operation.	
R667	Open	Normal operation.	
R668	Open	Normal operation.	
R669	Open	Normal operation.	
R670	Open	Normal operation.	
R671	Open	Normal operation.	
R672	Open	Normal operation.	
R673	Open	No Hazard.	AVR1:0V
R674	Open	No Hazard.	AVR1:0V
R701	Open	Normal operation.	
R702	Open	Normal operation.	
R707	Open	No Hazard.	AVR1:0V
R709	Open	Normal operation.	
R710	Open	No Hazard.	AVR1:0V
R711	Open	No Hazard.	AVR1:0V
R713	Open	Normal operation.	
R714	Open	Normal operation.	
R718	Open	Normal operation.	
R719	Open	Normal operation.	
R723	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R724	Open	Normal operation.	
R725	Open	Normal operation.	
R726	Open	Normal operation.	
R727	Open	Normal operation.	
R730	Open	Normal operation.	



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C119	Short		No Hazard.	AVR1:0V
C120	Short		No Hazard.	AVR1:0V
C121	Short		No Hazard.	AVR1:0V
C132	Short		No Hazard.	AVR1:0V
C133	Short		No Hazard.	AVR1:0V
C155	Short		No Hazard.	AVR1:0V
C156	Short		No Hazard.	AVR1:0V
C157	Short		No Hazard.	AVR1:0V
D306	Short		No Hazard.	AVR1:0V
D307	Short		No Hazard.	AVR1:0V
D308	Short		No Hazard.	AVR1:0V
D309	Short		No Hazard.	AVR1:0V
D403	Short		No Hazard.	AVR1:0V
IC401	Short	2-3	No Hazard.	AVR1:0V
SS103	Short		No Hazard.	AVR1:0V
TR101	Open	D	No Hazard.	AVR1:0V
		S	No Hazard.	AVR1:0V
		G	No Hazard.	AVR1:0V
	Short	D-S	No Hazard.	AVR1:0V
		S-G	No Hazard.	AVR1:0V
		G-D	No Hazard.	AVR1:0V
TR102	Open	D	No Hazard.	AVR1:0V
		S	No Hazard.	AVR1:0V
		G	No Hazard.	AVR1:0V



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR102	Short	D-S	No Hazard.	AVR1:0V
		S-G	No Hazard.	AVR1:0V
		G-D	No Hazard.	AVR1:0V
TR103	Open	D	No Hazard.	AVR1:0V
		S	No Hazard.	AVR1:0V
		G	No Hazard.	AVR1:0V
	Short	D-S	No Hazard.	AVR1:0V
		S-G	No Hazard.	AVR1:0V
		G-D	No Hazard.	AVR1:0V
TR308	Open	D	No Hazard.	AVR1:0V
		S	No Hazard.	AVR1:0V
		G	No Hazard.	AVR1:0V
	Short	D-S	No Hazard.	AVR1:0V
		S-G	No Hazard.	AVR1:0V
		G-D	No Hazard.	AVR1:0V
TR311	Open	D	No Hazard.	AVR1:0V
		S	No Hazard.	AVR1:0V
		G	No Hazard.	AVR1:0V
	Short	D-S	No Hazard.	AVR1:0V
		S-G	No Hazard.	AVR1:0V
		G-D	No Hazard.	AVR1:0V