

ABNORMAL TEST RESULT

OF MODEL PBA1500F

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 ~ 52/55)

(Abnormal Test Result: 53/55 ~ 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	R114 or R115 opened, No hazard.	AVR1:0V
C107	Open	Normal operation.	
	Short	R114 or R115 opened, No hazard.	AVR1:0V
C108	Open	Normal operation.	
	Short	R114 or R115 opened, No hazard.	AVR1:0V
C109	Open	Normal operation.	
	Short	R114 or R115 opened, No hazard.	AVR1:0V
C110	Open	Normal operation.	
	Short	Normal operation.	
C111	Open	Normal operation.	
	Short	Normal operation.	
C114	Open	Normal operation.	
	Short	Normal operation.	
C115	Open	Normal operation.	
	Short	Normal operation.	
C116	Open	Normal operation.	
	Short	Normal operation.	
C119	Open	Normal operation.	
	Short	See 53 Page.	

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Component	Mode	Comment	Output Voltage (V)
C120	Open	Normal operation.	
	Short	See 53 Page.	
C121	Open	Normal operation.	
	Short	See 53 Page.	
C124	Open	Normal operation.	
	Short	Normal operation.	
C125	Open	Normal operation.	
	Short	R114 or R115 opened, No hazard.	AVR1:0V
C126	Open	Normal operation.	
	Short	R114 or R115 opened, No hazard.	AVR1:0V
C127	Open	Normal operation.	
	Short	Normal operation.	
C128	Open	Normal operation.	
	Short	Normal operation.	
C129	Open	Normal operation.	
	Short	Normal operation.	
C130	Open	Normal operation.	
	Short	Normal operation.	
C202	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C203	Open	Normal operation.	
	Short	Normal operation.	
C204	Open	Normal operation.	
	Short	R114 or R115 opened, No hazard.	AVR1:0V

F M E A

Component	Mode	Comment	Output Voltage (V)
C205	Open	Normal operation.	
	Short	R114 or R115 opened, No hazard.	AVR1:0V
C206	Open	Normal operation.	
	Short	Normal operation.	
C207	Open	Normal operation.	
	Short	Normal operation.	
C208	Open	Normal operation.	
	Short	R114 or R115 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	R114 or R115 opened, No hazard.	AVR1:0V
C214	Open	Normal operation.	
	Short	Normal operation.	
C215	Open	Normal operation.	
	Short	Normal operation.	
C216	Open	Normal operation.	
	Short	R247 opened, No hazard.	AVR1:0V
C217	Open	Normal operation.	
	Short	R247 opened, No hazard.	AVR1:0V

F M E A

Component	Mode	Comment	Output Voltage (V)
C218	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C301	Open	Normal operation.	
	Short	R328 opened, No hazard.	AVR1:0V
C302	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C303	Open	Normal operation.	
	Short	No Hazard.	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.	
C310	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C311	Open	Normal operation.	
	Short	See 53 Page.	
C312	Open	Normal operation.	
	Short	See 53 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C313	Open		Normal operation.	
	Short		See 53 Page.	
C314	Open	Only24, 36	Normal operation.	
	Short	Only24, 36	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		R328 opened, No hazard.	AVR1:0V
C323	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		No Hazard.	AVR1:0V
C324	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C325	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C327	Open		Normal operation.	
	Short		See 53 Page.	
C328	Open		Normal operation.	
	Short		See 53 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C330	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C331	Open	Only24, 36	Normal operation.	
	Short	Only24, 36	Normal operation.	
C332	Open	Only24, 36	Normal operation.	
	Short	Only24, 36	Normal operation.	
C333	Open		Normal operation.	
	Short		Normal operation.	
C334	Open		Normal operation.	
	Short		Normal operation.	
C402	Open		No Hazard.	AVR1:0V
	Short		No Hazard.	AVR1:0V
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.	
C408	Open		Normal operation.	
	Short		Normal operation.	

F M E A

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

F M E A

Component	Mode		Comment	Output Voltage (V)
C517	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C518	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C519	Open		Normal operation.	
	Short		Normal operation.	
C520	Open		Normal operation.	
	Short		Normal operation.	
C521	Open		Normal operation.	
	Short		Normal operation.	
C530	Open		Normal operation.	
	Short		Normal operation.	
C531	Open	Except12, 15	Normal operation.	
	Short	Except12, 15	Normal operation.	
C532	Open	Except3. 3, 5,	Normal operation.	
	Short	Except3. 3, 5,	Normal operation.	
C533	Open	Except3. 3, 5,	Normal operation.	
	Short	Except3. 3, 5,	Normal operation.	
C534	Open	Except24, 36	Normal operation.	
	Short	Except24, 36	Normal operation.	
C535	Open		Normal operation.	
	Short		Normal operation.	
C536	Open	Except3. 3, 5	Normal operation.	
	Short	Except3. 3, 5	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C537	Open	Except3. 3, 5	Normal operation.	
	Short	Except3. 3, 5	Normal operation.	
C538	Open		Normal operation.	
	Short		Normal operation.	
C539	Open		Normal operation.	
	Short		Normal operation.	
C540	Open	Only24, 36	Normal operation.	
	Short	Only24, 36	Normal operation.	
C541	Open	Only12, 15	Normal operation.	
	Short	Only12, 15	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.	AVR1:decreased
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.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C609	Open	Normal operation.	
	Short	Normal operation.	
C610	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
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.	
C620	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C621	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C622	Open	Normal operation.	
	Short	Normal operation.	
C623	Open	Normal operation.	
	Short	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
C624	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C625	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C626	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C627	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C628	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C629	Open		Normal operation.	
	Short		Normal operation.	
C630	Open	Only3. 3, 5, 48	Normal operation.	
	Short	Only3. 3, 5, 48	Normal operation.	
C631	Open		Normal operation.	
	Short		Normal operation.	
C632	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C701	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
C703	Open		Normal operation.	
	Short		Normal operation.	
C704	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V

F M E A

Component	Mode	Comment	Output Voltage (V)
C705	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
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.	
C715	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
C716	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D101	Open	R114 or R115 opened, No hazard.	AVR1:0V
	Short	R114 or R115 opened, No hazard.	AVR1:0V
D102	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0V
D103	Open	Normal operation.	
	Short	Normal operation.	

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Component	Mode	Comment	Output Voltage (V)
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	No Hazard.	AVR1:0V
D108	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D109	Open	R114 or R115 opened, No hazard.	AVR1:0V
	Short	R114 or R115 opened, No hazard.	AVR1:0V
D201	Open	Normal operation.	
	Short	Normal operation.	
D202	Open	Normal operation.	
	Short	Normal operation.	
D203	Open	Normal operation.	
	Short	Normal operation.	
D204	Open	Normal operation.	
	Short	Normal operation.	
D205	Open	Normal operation.	
	Short	Normal operation.	
D206	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
D207	Open	Normal operation.	
	Short	Normal operation.	
D208	Open	Normal operation.	
	Short	R114 or R115 opened, No hazard.	AVR1:0V
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	Normal operation.	
	Short	See 53 Page.	
D307	Open	Normal operation.	
	Short	See 53 Page.	
D308	Open	Normal operation.	
	Short	See 53 Page.	
D309	Open	Normal operation.	
	Short	See 53 Page.	

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Component	Mode		Comment	Output Voltage (V)
D310	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
D311	Open	Only24, 36	Normal operation.	
	Short	Only24, 36	Normal operation.	
D401	Open		No Hazard.	AVR1:0V
	Short		R401 opened, No hazard.	AVR1:0V
D402	Open		No Hazard.	AVR1:0V
	Short		No Hazard.	AVR1:0V
D403	Open		Normal operation.	
	Short		See 53 Page.	
D405	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	
D501	Open		No Hazard.	AVR1:0V
	Short		No Hazard.	AVR1:0V
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.	
D605	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	
D606	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V

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Component	Mode	Comment	Output Voltage (V)
D607	Open	Normal operation.	
	Short	Normal operation.	
D608	Open	Normal operation.	
	Short	Normal operation.	
D609	Open	Normal operation.	
	Short	Normal operation.	
D610	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
D611	Open	Normal operation.	
	Short	Normal operation.	
D612	Open	Normal operation.	
	Short	Normal operation.	
D613	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V
D614	Open	Normal operation.	
	Short	Normal operation.	
D615	Open	Normal operation.	
	Short	Normal operation.	
D621	Open	Normal operation.	
	Short	Normal operation.	
D622	Open	Normal operation.	
	Short	Normal operation.	
D623	Open	Normal operation.	
	Short	No Hazard.	AVR1:0V

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Component	Mode	Comment	Output Voltage (V)	
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.		
F302	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.	
		7	R114 or R115 opened, No hazard.	AVR1:0V
		8	R114 or R115 opened, No hazard.	AVR1:0V

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Component	Mode		Comment	Output Voltage (V)
IC201	Open	9	No Hazard.	AVR1:0V
		10	No Hazard.	AVR1:0V
		11	Normal operation.	
		12	No Hazard.	AVR1:0V
		13	R114 or R115 opened, No hazard.	AVR1:0V
		14	Normal operation.	
		15	R114 or R115 opened, No hazard.	AVR1:0V
		16	R114 or R115 opened, No hazard.	AVR1:0V
	Short	1-2	R114 or R115 opened, No hazard.	AVR1:0V
		2-3	Normal operation.	
		3-4	Normal operation.	
		4-5	R114 or R115 opened, No hazard.	AVR1:0V
		5-6	R114 or R115 opened, No hazard.	AVR1:0V
		6-7	Normal operation.	
		7-8	R114 or R115 opened, No hazard.	AVR1:0V
		9-10	Normal operation.	
		10-11	R114 or R115 opened, No hazard.	AVR1:0V
		11-12	Normal operation.	
		12-13	Normal operation.	
		13-14	R114 or R115 opened, No hazard.	AVR1:0V
IC301	Open	1	No Hazard.	AVR1:0V
		2	No Hazard.	AVR1:0V

F M E A

Component	Mode		Comment	Output Voltage (V)		
IC301	Open	3	F302 opened, 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.	AVR1:0V		
		14	Normal operation.			
		15	Normal operation.			
		16	Normal operation.			
		17	No Hazard.	AVR1:0V		
		18	Output voltage decreased. No hazard.	AVR1:0V		
		19	Output voltage decreased. No hazard.	AVR1:0V		
		20	No Hazard.	AVR1:0V		
		IC301	Short	1-2	See 53 Page.	
				2-3	No Hazard.	AVR1:0V
3-4	Normal operation.					
4-5	Normal operation.					
5-6	Normal operation.					
6-7	Normal operation.					

F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Short	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	Normal operation.	
		14-15	Normal operation.	
		15-16	Normal operation.	
		16-17	Normal operation.	
		17-18	Normal operation.	
		18-19	Normal operation.	
		19-20	R328 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 53 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
IC602	Open	1	No Hazard.	AVR1:0V
		2	Normal operation.	
		3	No Hazard.	AVR1:0V

F M E A

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

F M E A

Component	Mode		Comment	Output Voltage (V)
IC604	Open	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	Normal operation.	
		6-7	Normal operation.	
		8-9	Normal operation.	
		9-10	Normal operation.	
		10-11	Normal operation.	
		11-12	Normal operation.	
		12-13	Normal operation.	
		13-14	Normal operation.	
		IC701	Open	1
2	Normal operation.			
3	Normal operation.			
L101	Open		No Hazard.	AVR1:0V
	Short		F101 opened, No hazard.	AVR1:0V

F M E A

Component	Mode		Comment	Output Voltage (V)
L102	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	
L103	Open	1, 2, 3, 4	Normal operation.	
		8, 9, 10, 11	Normal operation.	
		6	R114 or R115 opened, No hazard.	AVR1:0V
		7	R114 or R115 opened, No hazard.	AVR1:0V
	Short	1, 2, 3, 4-6	R114 or R115 opened, No hazard.	AVR1:0V
		6-7	R114 or R115 opened, No hazard.	AVR1:0V
L104	Open		R114 or R115 opened, No hazard.	AVR1:0V
	Short		Normal operation.	
L105	Open		R114 or R115 opened, No hazard.	AVR1:0V
	Short		Normal operation.	
L106	Open		R114 or R115 opened, No hazard.	AVR1:0V
	Short		Normal operation.	
L107	Open		R114 or R115 opened, No hazard.	AVR1:0V
	Short		Normal operation.	
L108	Open		Normal operation.	
	Short		Normal operation.	
L112	Open		No Hazard.	AVR1:0V
	Short		No Hazard.	AVR1:0V
L113	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	
L301	Open		F302 opened, No hazard.	AVR1:0V
	Short		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
L302	Open		F302 opened, No hazard.	AVR1:0V
	Short		Normal operation.	
L304	Open		F302 opened, No hazard.	AVR1:0V
	Short		Normal operation.	
L305	Open		F302 opened, No hazard.	AVR1:0V
	Short		Normal operation.	
L501	Open	1	No Hazard.	AVR1:0V
		2	No Hazard.	AVR1:0V
		3	No Hazard.	AVR1:0V
		4	No Hazard.	AVR1:0V
	Short	1-2	No Hazard.	AVR1:0V
		3-4	No Hazard.	AVR1:0V
L502	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	
L503	Open		Normal operation.	
L528	Open	Only12, 15	Normal operation.	
	Short	Only12, 15	Normal operation.	
L529	Open	Only24, 36	Normal operation.	
	Short	Only24, 36	Normal operation.	
LED601	Open		Normal operation.	
	Short		Normal operation.	
PC301	Open	LED. A, K	Normal operation.	
		LED. C, E	Normal operation.	
	Short	TR . A-K	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
PC301	Short	TR. C-E	No Hazard.	AVR1:0V
PC302	Open	LED. A, K	No Hazard.	AVR1:0V
		LED. C, E	No Hazard.	AVR1:0V
	Short	TR. A-K	No Hazard.	AVR1:0V
		TR. C-E	No Hazard.	AVR1:0V
PC601	Open	LED. A, K	No Hazard.	AVR1:0V
		TR. C, E	No Hazard.	AVR1:0V
	Short	LED. A-K	Normal operation.	
		TR. C-E	Normal operation.	
PC602	Open	LED. A, K	Normal operation.	
		TR. C, E	Normal operation.	
	Short	LED. A-K	Normal operation.	
		TR. C-E	No Hazard.	AVR1:0V
PC702	Open	LED. A, K	Normal operation.	
		TR. C, E	Normal operation.	
	Short	LED. A-K	Normal operation.	
		TR. C-E	Normal operation.	
SCR101	Open	K	R114 or R115 opened, No hazard.	AVR1:0V
		A	R114 or R115 opened, No hazard.	AVR1:0V
		G	R114 or R115 opened, No hazard.	AVR1:0V
	Short	K-A	Normal operation.	
		K-G	Normal operation.	
		A-G	R114 or R115 opened, No hazard.	AVR1:0V
SCR102	Open	K	R114 or R115 opened, No hazard.	AVR1:0V

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Component	Mode		Comment	Output Voltage (V)
SCR102	Open	A	R114 or R115 opened, No hazard.	AVR1:0V
		G	R114 or R115 opened, No hazard.	AVR1:0V
	Short	K-A	Normal operation.	
		K-G	Normal operation.	
		A-G	R114 or R115 opened, No hazard.	AVR1:0V
SS101	Open	+	Normal operation.	
		-	Normal operation.	
		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	No Hazard.	AVR1:0V
SS103	Open		No Hazard.	AVR1:0V
	Short		R114 or R115 opened, No hazard.	AVR1:0V
SS501	Open	Except36, 48	Normal operation.	
	Short	Except36, 48	No Hazard.	AVR1:0V
SS502	Open	Except36, 48	Normal operation.	
	Short	Except36, 48	No Hazard.	AVR1:0V
SS503	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
SS504	Open		Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
SS504	Short		No Hazard.	AVR1:0V
SS505	Open	Except36, 48	Normal operation.	
	Short	Except36, 48	No Hazard.	AVR1:0V
SS506	Open	Except36, 48	Normal operation.	
	Short	Except36, 48	No Hazard.	AVR1:0V
SS507	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
SS508	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
SS509	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
SS510	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
SS511	Open	Only3. 3, 5, 7.	Normal operation.	
	Short		No Hazard.	AVR1:0V
SS512	Open		Normal operation.	
	Short		No Hazard.	AVR1:0V
T101	Open	1	R114 or R115 opened, No hazard.	AVR1:0V
		2	R114 or R115 opened, No hazard.	AVR1:0V
		3	Normal operation.	
		4	Normal operation.	
	Short	1-2	Normal operation.	
		3-4	Normal operation.	
T102	Open	1	R114 or R115 opened, No hazard.	AVR1:0V

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Component	Mode		Comment	Output Voltage (V)
T102	Open	2	R114 or R115 opened, No hazard.	AVR1:0V
		3	Normal operation.	
		4	Normal operation.	
	Short	1-2	Normal operation.	
		3-4	Normal operation.	
T103	Open	2	F302 opened, No hazard.	AVR1:0V
		4	F302 opened, No hazard.	AVR1:0V
		6	F302 opened, No hazard.	AVR1:0V
		7	F302 opened, No hazard.	AVR1:0V
		9	F302 opened, No hazard.	AVR1:0V
		10	F302 opened, No hazard.	AVR1:0V
	Short	3-4	F302 opened, No hazard.	AVR1:0V
		6-7	F302 opened, No hazard.	AVR1:0V
		9-10	F302 opened, No hazard.	AVR1:0V
T104	Open	1	No Hazard.	AVR1:0V
		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.	

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Component	Mode		Comment	Output Voltage (V)
T105	Short	1-2	Normal operation.	
		3-4	Normal operation.	
T301	Open	1	No Hazard.	AVR1:0V
		2	No Hazard.	AVR1:0V
		3	No Hazard.	AVR1:0V
		4	No Hazard.	AVR1:0V
	Short	1-2	F302 opened, No hazard.	AVR1:0V
		3-4	F302 opened, No hazard.	AVR1:0V
T401	Open	5	R401 opened, No hazard.	AVR1:0V
		6	R401 opened, No hazard.	AVR1:0V
		7	No Hazard.	AVR1:0V
		9	No Hazard.	AVR1:0V
	Short	5-6	No Hazard.	AVR1:0V
		7-9	R410 opened, No hazard.	AVR1:0V
TR101	Open	D	See 53 Page.	
		S	See 53 Page.	
		G	See 53 Page.	
	Short	D-S	See 53 Page.	
		S-G	See 53 Page.	
		G-D	See 53 Page.	
TR102	Open	D	See 53 Page.	
		S	See 53 Page.	
		G	See 53 Page.	
	Short	D-S	See 54 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR102	Short	S-G	See 54 Page.	
		G-D	See 54 Page.	
TR103	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.	
TR104	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.	
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	R114 or R115 opened, No hazard.	AVR1:0V
TR110	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0V

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Component	Mode		Comment	Output Voltage (V)
TR110	Short	E-B	No Hazard.	AVR1:0V
		B-C	R114 or R115 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	R114 or R115 opened, No hazard.	AVR1:0V
TR112	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	R114 or R115 opened, No hazard.	AVR1:0V
TR201	Open	C	R114 or R115 opened, No hazard.	AVR1:0V
		E	R114 or R115 opened, No hazard.	AVR1:0V
		B	R114 or R115 opened, No hazard.	AVR1:0V
	Short	C-E	Normal operation.	
		E-B	R114 or R115 opened, No hazard.	AVR1:0V
		B-C	Normal operation.	
TR202	Open	C	R114 or R115 opened, No hazard.	AVR1:0V
		E	R114 or R115 opened, No hazard.	AVR1:0V
		B	R114 or R115 opened, No hazard.	AVR1:0V
	Short	C-E	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
TR202	Short	E-B	R114 or R115 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	No Hazard.	AVR1:0V
		E-B	Normal operation.	
		B-C	Normal operation.	
TR301	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0V

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Component	Mode		Comment	Output Voltage (V)
TR301	Short	E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0V
TR302	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.	
TR303	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	No Hazard.	AVR1:0V
		B-C	No Hazard.	AVR1:0V
TR304	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	No Hazard.	AVR1:0V
		B-C	No Hazard.	AVR1:0V
TR305	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0V

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Component	Mode		Comment	Output Voltage (V)
TR305	Short	E-B	F302 opened, 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	F302 opened, 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	F302 opened, No hazard.	AVR1:0V
		B-C	No Hazard.	AVR1:0V
TR308	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.	
TR309	Open	D	See 54 Page.	
		S	See 54 Page.	
		G	See 54 Page.	
	Short	D-S	See 55 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR309	Short	S-G	See 55 Page.	
		G-D	See 55 Page.	
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.	
TR312	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.	
TR313	Open	C Only24, 36	Normal operation.	
		E Only24, 36	Normal operation.	
		B Only24, 36	Normal operation.	
	Short	C-E Only24, 3	Normal operation.	
		E-B Only24, 3	Normal operation.	
		B-C Only24, 36	Normal operation.	
TR314	Open	C Only24, 36	Normal operation.	
		E Only24, 36	Normal operation.	
		B Only24, 36	Normal operation.	
	Short	C-E Only24, 3	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
TR314	Short	E-B Only24, 3	Normal operation.	
		B-C Only24, 36	Normal operation.	
TR315	Open	C Only24, 36	Normal operation.	
		E Only24, 36	Normal operation.	
		B Only24, 36	Normal operation.	
	Short	C-E Only24, 3	Normal operation.	
		E-B Only24, 3	Normal operation.	
		B-C Only24, 3	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.	
TR611	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
TR611	Short	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	Normal operation.	
		B-C	Normal operation.	
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.	
TR623	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
TR623	Short	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	No Hazard.	AVR1:0V
		B-C	No Hazard.	AVR1:0V
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	No Hazard.	AVR1:0V
TR706	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
TR706	Short	E-B	Normal operation.	
		B-C	Normal operation.	
VR301	Open	brush Only24	Normal operation.	
		Only24, 36	Normal operation.	
	Short	Only24, 36	Normal operation.	
VR601	Open	brush	Output voltage increased. No hazard.	
			No Hazard.	AVR1:0V
	Short		No Hazard.	AVR1:0V
VR602	Open	brush Only48	Output voltage decreased. No hazard.	AVR1:decreased
		Only48	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Only48	No Hazard.	AVR1:0V
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
ZD304	Open	Only24, 36	Normal operation.	
	Short	Only24, 36	Normal operation.	
ZD305	Open	Only24, 36	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
ZD305	Short	Only24, 36	Normal operation.	
ZD401	Open		No Hazard.	AVR1:0V
	Short		Normal operation.	
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	Only24, 36, 48	Normal operation.	
	Short	Only24, 36, 48	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.	
R107	Open		Normal operation.	
R108	Open		Normal operation.	
R109	Open		Normal operation.	
R110	Open		R114 or R115 opened, No hazard.	AVR1:0V
R111	Open		R114 or R115 opened, No hazard.	AVR1:0V

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Component	Mode	Comment	Output Voltage (V)
R112	Open	R114 or R115 opened, No hazard.	AVR1:0V
R113	Open	R114 or R115 opened, No hazard.	AVR1:0V
R114	Open	Normal operation.	
R115	Open	Normal operation.	
R116	Open	Normal operation.	
R117	Open	Normal operation.	
R118	Open	R114 or R115 opened, No hazard.	AVR1:0V
R119	Open	R114 or R115 opened, No hazard.	AVR1:0V
R120	Open	R114 or R115 opened, No hazard.	AVR1:0V
R121	Open	R114 or R115 opened, No hazard.	AVR1:0V
R122	Open	Normal operation.	
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.	
R201	Open	No Hazard.	AVR1:0V
R202	Open	No Hazard.	AVR1:0V
R203	Open	No Hazard.	AVR1:0V

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Component	Mode	Comment	Output Voltage (V)
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.	
R225	Open	Normal operation.	
R226	Open	Normal operation.	
R227	Open	R114 or R115 opened, No hazard.	AVR1:0V
R228	Open	R114 or R115 opened, No hazard.	AVR1:0V
R229	Open	R114 or R115 opened, No hazard.	AVR1:0V

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Component	Mode	Comment	Output Voltage (V)
R230	Open	Normal operation.	
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	R114 or R115 opened, No hazard.	AVR1:0V
R240	Open	Normal operation.	
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	No Hazard.	AVR1:0V
R249	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.	

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Component	Mode		Comment	Output Voltage (V)
R306	Open		Normal operation.	
R307	Open		No Hazard.	AVR1:0V
R308	Open		Output voltage decreased. No hazard.	
R309	Open		Output voltage decreased. No hazard.	
R310	Open		Normal operation.	
R311	Open	Only24, 36	Output voltage decreased. No hazard.	
R312	Open		Normal operation.	
R313	Open		Normal operation.	
R314	Open		No Hazard.	AVR1:0V
R315	Open		No Hazard.	AVR1:0V
R316	Open		Normal operation.	
R317	Open		Normal operation.	
R318	Open		No Hazard.	AVR1:0V
R319	Open		No Hazard.	AVR1:0V
R320	Open		F302 opened, No hazard.	AVR1:0V
R321	Open		F302 opened, No hazard.	AVR1:0V
R322	Open		No Hazard.	AVR1:0V
R323	Open		F302 opened, No hazard.	AVR1:0V
R324	Open		F302 opened, No hazard.	AVR1:0V
R325	Open		No Hazard.	AVR1:0V
R326	Open		Normal operation.	
R327	Open		Normal operation.	
R328	Open		No Hazard.	AVR1:0V
R329	Open		Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
R331	Open		Normal operation.	
R332	Open	Only24, 36	Normal operation.	
R333	Open	Only24, 36	Normal operation.	
R334	Open	Only24, 36	Normal operation.	
R335	Open	Only24, 36	Normal operation.	
R336	Open	Only24, 36	Normal operation.	
R337	Open	Only24, 36	Normal operation.	
R338	Open	Only24, 36	Normal operation.	
R339	Open	Only24, 36	Normal operation.	
R340	Open	Only24, 36	Normal operation.	
R341	Open	Only24, 36	Normal operation.	
R342	Open	Only24, 36	Normal operation.	
R343	Open	Only24, 36	Normal operation.	
R344	Open	Only24, 36	Normal operation.	
R345	Open		Normal operation.	
R346	Open		Normal operation.	
R347	Open	Only24, 36	Normal operation.	
R348	Open		Normal operation.	
R349	Open		Normal operation.	
R401	Open		No Hazard.	AVR1:0V
R402	Open		No Hazard.	AVR1:0V
R403	Open		No Hazard.	AVR1:0V
R404	Open		Normal operation.	
R405	Open		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R406	Open	Normal operation.	
R407	Open	Normal operation.	
R408	Open	Normal operation.	
R409	Open	Normal operation.	
R410	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,	Normal operation.
R518	Open	No Hazard.	AVR1:0V
R531	Open	Normal operation.	
R532	Open	Normal operation.	
R550	Open	Normal operation.	
R551	Open	Normal operation.	
R552	Open	Normal operation.	
R553	Open	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R555	Open	Only 7.5, 24, 3	Normal operation.	
R556	Open	Only 7.5, 24, 3 6, 48	Normal operation.	
R557	Open	Only 7.5, 24, 3	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.	
R601	Open		Normal operation.	
R602	Open		No Hazard.	AVR1:0V
R603	Open		No Hazard.	AVR1:0V
R604	Open		Normal operation.	
R605	Open		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R606	Open	No Hazard.	AVR1:0V
R607	Open	No Hazard.	AVR1:0V
R608	Open	Normal operation.	
R609	Open	No Hazard.	AVR1:0V
R610	Open	No Hazard.	AVR1:0V
R611	Open	No Hazard.	AVR1:0V
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.	AVR1:decreased
R626	Open	No Hazard.	AVR1:0V
R627	Open	No Hazard.	AVR1:0V
R628	Open	No Hazard.	AVR1:0V
R629	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R630	Open	No Hazard.	AVR1:0V
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	Normal operation.	
R638	Open	Normal operation.	
R639	Open	Normal operation.	
R640	Open	Normal operation.	
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	Except48	Output voltage decreased. No hazard.	AVR1:decreased
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		Normal operation.	
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		F101 opened, No hazard.	AVR1:0V
C120	Short		F101 opened, No hazard.	AVR1:0V
C121	Short		F101 opened, No hazard.	AVR1:0V
C311	Short		F302 opened, No hazard.	AVR1:0V
C312	Short		No Hazard.	AVR1:0V
C313	Short		No Hazard.	AVR1:0V
C327	Short		Normal operation	
C328	Short		Normal operation	
D306	Short		No Hazard.	AVR1:0V
D307	Short		No Hazard.	AVR1:0V
D308	Short		Normal operation	
D309	Short		Normal operation	
D403	Short		No Hazard.	AVR1:0V
IC301	Short	1-2	No Hazard.	AVR1:0V
IC401	Short	2-3	R410 opened, No hazard.	AVR1:0V
TR101	Open	D	No Hazard.	AVR1:0V
		S	No Hazard.	AVR1:0V
		G	F101 opened, No hazard.	AVR1:0V
	Short	D-S	F101 opened, No hazard.	AVR1:0V
		S-G	No Hazard.	AVR1:0V
		G-D	F101 opened, No hazard.	AVR1:0V
TR102	Open	D	No Hazard.	AVR1:0V
		S	No Hazard.	AVR1:0V
		G	F101 opened, No hazard.	AVR1:0V

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR102	Short	D-S	F101 opened, No hazard.	AVR1:0V
		S-G	No Hazard.	AVR1:0V
		G-D	F101 opened, No hazard.	AVR1:0V
TR103	Open	D	No Hazard.	AVR1:0V
		S	No Hazard.	AVR1:0V
		G	F101 opened, No hazard.	AVR1:0V
	Short	D-S	F101 opened, No hazard.	AVR1:0V
		S-G	No Hazard.	AVR1:0V
		G-D	F101 opened, No hazard.	AVR1:0V
TR104	Open	D	No Hazard.	AVR1:0V
		S	No Hazard.	AVR1:0V
		G	F101 opened, No hazard.	AVR1:0V
	Short	D-S	F101 opened, No hazard.	AVR1:0V
		S-G	No Hazard.	AVR1:0V
		G-D	F101 opened, No hazard.	AVR1:0V
TR308	Open	D	Normal operation	
		S	Normal operation	
		G	Normal operation	
	Short	D-S	No Hazard.	AVR1:0V
		S-G	Normal operation	
		G-D	No Hazard.	AVR1:0V
TR309	Open	D	Normal operation	
		S	Normal operation	
		G	Normal operation	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR309	Short	D-S	No Hazard.	AVR1:0V
		S-G	Normal operation	
		G-D	No Hazard.	AVR1:0V
TR311	Open	D	Normal operation	
		S	Normal operation	
		G	Normal operation	
	Short	D-S	No Hazard.	AVR1:0V
		S-G	Normal operation	
		G-D	No Hazard.	AVR1:0V
TR312	Open	D	Normal operation	
		S	Normal operation	
		G	Normal operation	
	Short	D-S	No Hazard.	AVR1:0V
		S-G	Normal operation	
		G-D	No Hazard.	AVR1:0V