

ABNORMAL TEST RESULT

OF MODEL PJA300F

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 : 2/22 ~ 21/22)

(Abnormal Test Result: 22/22 ~ 22/22)

There was no emission of flame, molten metal, ignition of cheesecloth, dielectric breakdown, opening of the ground fuse, other indication of a shock or fire hazard.

F M E A

Component	Mode	Comment	Output Voltage (V)
C101	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0
C102	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0
C105	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0
C107	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C109	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C111	Open	Normal operation.	
	Short	Normal operation.	
C112	Open	Normal operation.	
	Short	Normal operation.	
C113	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C114	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C115	Open	Normal operation.	
	Short	Normal operation.	
C116	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C117	Open	Normal operation.	
	Short	No Hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C119	Open	Normal operation.	
	Short	Normal operation.	
C120	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C121	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C160	Open	Normal operation.	
	Short	Normal operation.	
C161	Open	Normal operation.	
	Short	Normal operation.	
C201 (Except:-48)	Open	Normal operation.	
	Short	See 22 Page.	
C202	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C203	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C204	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C205	Open	Normal operation.	
	Short	Normal operation.	
C207	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C208 (Only -5, -36, -48)	Open	Normal operation.	
	Short	No Hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C210	Open	Normal operation.	
	Short	Normal operation.	
C211	Open	Normal operation.	
	Short	Normal operation.	
C213	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C250	Open	Normal operation.	
	Short	See 22 Page.	
C251	Open	Normal operation.	
	Short	See 22 Page.	
C270	Open	Normal operation.	
	Short	See 22 Page.	
C271	Open	Normal operation.	
	Short	See 22 Page.	
C503 (Except:5)	Open	Normal operation.	
	Short	Normal operation.	
C504 (Except:5)	Open	Normal operation.	
	Short	Normal operation.	
C505 (Except:5)	Open	Normal operation.	
	Short	Normal operation.	
C506 (Except:5)	Open	Normal operation.	
	Short	Normal operation.	
C510	Open	Normal operation.	
	Short	No Hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C511	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C512 (Only -5, -12, -15)	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C513 (Only -5, -12)	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C514 (Only -5)	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C522	Open	Normal operation.	
	Short	Normal operation.	
C523	Open	Normal operation.	
	Short	Normal operation.	
C524 (Only -5, -48)	Open	Normal operation.	
	Short	Normal operation.	
C601	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C602	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C607 (Except:-12)	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C608 (Only -12, -15)	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C701	Open	Normal operation.	
	Short	See 22 Page.	

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Component	Mode	Comment	Output Voltage (V)
C702	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C703	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
D101	Open	Normal operation.	
	Short	Normal operation.	
D102	Open	Normal operation.	
	Short	Normal operation.	
D103	Open	Normal operation.	
	Short	Normal operation.	
D104	Open	Normal operation.	
	Short	Normal operation.	
D105	Open	No Hazard.	AVR1:0
	Short	Normal operation.	
D106	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
D107	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0
D108	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
D109	Open	Normal operation.	
	Short	Normal operation.	
D201	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	See 22 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
D202	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Normal operation.	
D203	Open		Normal operation.	
	Short		Normal operation.	
D205	Open		Normal operation.	
	Short		Normal operation.	
D206	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
D207	Open		Normal operation.	
	Short		Normal operation.	
D250	Open		Normal operation.	
	Short		Normal operation.	
D701	Open		Normal operation.	
	Short		See 22 Page.	
D703	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
FAN701	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
IC101	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC101	Open	6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		3-4	No Hazard.	AVR1:0
		5-6	No Hazard.	AVR1:0
		6-7	No Hazard.	AVR1:0
		7-8	F101 opened, No hazard.	AVR1:0
IC201	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	Normal operation.	
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation.	
		8	Normal operation.	
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		3-4	Normal operation.	
		5-6	F101 opened, No hazard.	AVR1:0
		6-7	Normal operation.	
		7-8	Normal operation.	
IC601	Open	3	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC601	Open	4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
	Short	4-5	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.	
	Short		No Hazard.	
J501	Open		Normal operation.	
J601	Open		No Hazard.	AVR1:0
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L102	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L103	Open	1	Normal operation.	
		3	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	
		11	Normal operation.	
		12	Normal operation.	
	Short	5-6	Normal operation.	
		11-12	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
L507	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
	Short	3-4	No Hazard.	AVR1:0
LED501	Open		Normal operation.	
	Short		Normal operation.	
PC201	Open	A, K	No Hazard.	AVR1:0
		C, E	No Hazard.	AVR1:0
	Short	A-K	No Hazard.	AVR1:0
		C-E	No Hazard.	AVR1:0
PC202	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	
		C-E	No Hazard.	AVR1:0
PTH201	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
PTH202	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
R101	Open		Normal operation.	
R102	Open		Normal operation.	
R103	Open		Normal operation.	
R104	Open		Normal operation.	
R105	Open		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R106	Open	Normal operation.	
R107	Open	Normal operation.	
R108	Open	No Hazard.	AVR1:0
R109	Open	No Hazard.	AVR1:0
R110	Open	No Hazard.	AVR1:0
R111	Open	No Hazard.	AVR1:0
R112	Open	No Hazard.	AVR1:0
R113	Open	Normal operation.	
R114	Open	Normal operation.	
R115	Open	Normal operation.	
R116	Open	Normal operation.	
R117	Open	Normal operation.	
R118	Open	Normal operation.	
R119	Open	Normal operation.	
R120	Open	Normal operation.	
R121	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.	

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Component	Mode	Comment	Output Voltage (V)
R132	Open	No Hazard.	AVR1:0
R133	Open	No Hazard.	AVR1:0
R136	Open	No Hazard.	AVR1:0
R141	Open	Normal operation.	
R142	Open	Normal operation.	
R143	Open	Normal operation.	
R144	Open	No Hazard.	AVR1:0
R145	Open	No Hazard.	AVR1:0
R148	Open	Normal operation.	
R149	Open	No Hazard.	AVR1:0
R150	Open	No Hazard.	AVR1:0
R151	Open	No Hazard.	AVR1:0
R152	Open	No Hazard.	AVR1:0
R153	Open	No Hazard.	AVR1:0
R154	Open	No Hazard.	AVR1:0
R162	Open	Normal operation.	
R163	Open	Normal operation.	
R164	Open	Normal operation.	
R165	Open	Normal operation.	
R166	Open	Normal operation.	
R167	Open	Normal operation.	
R201	Open	Normal operation.	
R202	Open	Normal operation.	
R203	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R204	Open	Normal operation.	
R205	Open	Normal operation.	
R206	Open	Normal operation.	
R207	Open	Normal operation.	
R211	Open	Normal operation.	
R212	Open	Normal operation.	
R213	Open	Normal operation.	
R214	Open	Normal operation.	
R215	Open	Normal operation.	
R218 (Only -5, -36, -48)	Open	Output voltage decreased. No hazard.	AVR1:decreased
R220	Open	No Hazard.	AVR1:0
R221	Open	No Hazard.	AVR1:0
R222	Open	Normal operation.	
R223	Open	Normal operation.	
R224	Open	Normal operation.	
R226	Open	Output voltage decreased. No hazard.	AVR1:decreased
R227	Open	Output voltage decreased. No hazard.	AVR1:decreased
R228	Open	Normal operation.	
R229	Open	Normal operation.	
R230	Open	Normal operation.	
R231	Open	Normal operation.	
R236	Open	Normal operation.	
R237	Open	Normal operation.	
R239	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R240	Open	Normal operation.	
R241	Open	Normal operation.	
R242	Open	Normal operation.	
R243	Open	Normal operation.	
R250	Open	Normal operation.	
R251	Open	Normal operation.	
R252	Open	Normal operation.	
R253	Open	Normal operation.	
R271	Open	Normal operation.	
R272	Open	Normal operation.	
R273	Open	Normal operation.	
R274	Open	Normal operation.	
R275	Open	Normal operation.	
R276	Open	Normal operation.	
R277	Open	Normal operation.	
R278	Open	Normal operation.	
R279	Open	Normal operation.	
R280	Open	Normal operation.	
R281	Open	Normal operation.	
R282	Open	Normal operation.	
R513 (Except:5)	Open	Normal operation.	
R514 (Except:5)	Open	Normal operation.	
R515 (Except:5)	Open	Normal operation.	
R516 (Except:5)	Open	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R517 (Only -15)	Open	Normal operation.	
R518 (Only -15)	Open	Normal operation.	
R530	Open	Normal operation.	
R531	Open	Normal operation.	
R532	Open	Normal operation.	
R533	Open	Normal operation.	
R540	Open	Normal operation.	
R541	Open	Normal operation.	
R542	Open	Normal operation.	
R543	Open	Normal operation.	
R544	Open	Normal operation.	
R545	Open	Normal operation.	
R546	Open	Normal operation.	
R547	Open	Normal operation.	
R548	Open	Normal operation.	
R549	Open	Normal operation.	
R550	Open	Normal operation.	
R551	Open	Normal operation.	
R552	Open	Normal operation.	
R553	Open	Normal operation.	
R554	Open	Normal operation.	
R555	Open	Normal operation.	
R556	Open	Normal operation.	
R557	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R558 (Only -5)	Open	Normal operation.	
R559 (Only -5)	Open	Normal operation.	
R570 (Except:5)	Open	Normal operation.	
R571 (Except:5)	Open	Normal operation.	
R572 (Except:5)	Open	Normal operation.	
R573 (Except:5)	Open	Normal operation.	
R574 (Except:5)	Open	Normal operation.	
R575 (Except:5)	Open	Normal operation.	
R576 (Except:5)	Open	Normal operation.	
R577 (Except:5)	Open	Normal operation.	
R578 (Except:5)	Open	Normal operation.	
R579 (Except:5)	Open	Normal operation.	
R580 (Except:5)	Open	Normal operation.	
R581 (Except:5)	Open	Normal operation.	
R582 (Only -24, -48)	Open	Normal operation.	
R583 (Only -24, -48)	Open	Normal operation.	
R584 (Only -24, -48)	Open	Normal operation.	
R585 (Only -24, -48)	Open	Normal operation.	
R586 (Only -24, -48)	Open	Normal operation.	
R587 (Only -24, -48)	Open	Normal operation.	
R588 (Only -24, -48)	Open	Normal operation.	
R589 (Only -24, -48)	Open	Normal operation.	
R601	Open	Output voltage decreased. No hazard.	AVR1:decreased
R602	Open	Output voltage decreased. No hazard.	AVR1:decreased

F M E A

Component	Mode	Comment	Output Voltage (V)
R603	Open	Output voltage decreased. No hazard.	AVR1:decreased
R604	Open	Normal operation.	
R605	Open	Output voltage decreased. No hazard.	AVR1:decreased
R606	Open	No Hazard.	AVR1:0
R607	Open	No Hazard.	AVR1:0
R608	Open	Output voltage decreased. No hazard.	AVR1:decreased
R610 (Only -12, -15)	Open	Output voltage decreased. No hazard.	AVR1:decreased
R701	Open	Normal operation.	
R702	Open	Normal operation.	
R703	Open	Normal operation.	
R704	Open	Normal operation.	
R705	Open	Normal operation.	
R706	Open	Normal operation.	
R707	Open	Normal operation.	
SK101	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0
SS101	Open	No Hazard.	AVR1:0
	Short	F101 opened, No hazard.	AVR1:0
SS102	Open	See 22 Page.	
	Short	No Hazard.	AVR1:0
SS501	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0
SS502 (Except:-36, -48)	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
T201	Open	1	Output voltage decreased. No hazard.	AVR1:decreased
		2	Normal operation.	
		3	Output voltage decreased. No hazard.	AVR1:decreased
		4	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation.	
		8	Normal operation.	
		11	Normal operation.	
		12	Normal operation.	
	Short	1-2	No Hazard.	AVR1:0
		2-3	See 22 Page.	
		3-4	See 22 Page.	
TH101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
TR101	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	No Hazard.	AVR1:0
		S-G	Normal operation.	
		G-D	No Hazard.	AVR1:0
TR102	Open	D	See 22 Page.	
		S	See 22 Page.	
		G	See 22 Page.	
	Short	D-S	See 22 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR102	Short	S-G	See 22 Page.	
		G-D	See 22 Page.	
TR106	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR108	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	Normal operation.	
		E-B	No Hazard.	AVR1:0
		B-C	Normal operation.	
TR201	Open	D	See 22 Page.	
		S	See 22 Page.	
		G	See 22 Page.	
	Short	D-S	See 22 Page.	
		S-G	See 22 Page.	
		G-D	See 22 Page.	
TR205	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
TR205	Short	E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0
TR206	Open	C	F101 opened, No hazard.	AVR1:0
		E	F101 opened, No hazard.	AVR1:0
		B	F101 opened, No hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B		
		B-C	No Hazard.	AVR1:0
VR601	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			Output voltage decreased. No hazard.	AVR1:decreased
	Short		No Hazard.	AVR1:0
ZD101	Open		Normal operation.	
	Short		Normal operation.	
ZD102	Open		Normal operation.	
	Short		Normal operation.	
ZD103	Open		Normal operation.	
	Short		Normal operation.	
ZD104	Open		Normal operation.	
	Short		Normal operation.	
ZD201	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
ZD501	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
ZD502 (Only -24, -36, -48)	Open		Normal operation.	



F M E A

Component		Mode	Comment	Output Voltage (V)
ZD502	(Only -24, -36, -48)	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)
C201 (Except:-48)	Short		No Hazard.	AVR1:0
C250	Short		Normal operation.	
C251	Short		Normal operation.	
C270	Short		Normal operation.	
C271	Short		Normal operation.	
C701	Short		No Hazard.	AVR1:0
D201	Short		No Hazard.	AVR1:0
D701	Short		No Hazard.	AVR1:0
SS102	Open		Normal operation.	
T201	Short	2-3	No Hazard.	AVR1:0
		3-4	F101 opened, No hazard.	AVR1:0
TR102	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	F101 opened, No hazard.	AVR1:0
	Short	D-S	F101 opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	F101 opened, No hazard.	AVR1:0
TR201	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	F101 opened, No hazard.	AVR1:0
	Short	D-S	F101 opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	F101 opened, No hazard.	AVR1:0