

## ABNORMAL TEST RESULT

## OF MODEL AME800F

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 : 2/58 ~ 55/58)

( Abnormal Test Result: 56/58 ~ 58/58)

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

## F M E A

Component	Mode	Comment	Output Voltage (V)
C101	Open	Normal operation.	AVR1:*
	Short	F101, F102 opened. No hazard.	AVR1:0
C102	Open	Normal operation.	AVR1:*
	Short	F101, F102 opened. No hazard.	AVR1:0
C105	Open	Normal operation.	AVR1:*
	Short	F101, F102 opened. No hazard.	AVR1:0
C112	Open	Normal operation.	AVR1:*
	Short	F101, F102 opened. No hazard.	AVR1:0
C113	Open	Normal operation.	AVR1:*
	Short	F101, F102 opened. No hazard.	AVR1:0
C114	Open	Normal operation.	AVR1:*
	Short	F101, F102 opened. No hazard.	AVR1:0
C115	Open	Normal operation.	AVR1:*
	Short	F101, F102 opened. No hazard.	AVR1:0
C116	Open	Normal operation.	AVR1:*
	Short	F101, F102 opened. No hazard.	AVR1:0
C117	Open	Normal operation.	AVR1:*
	Short	F101, F102 opened. No hazard.	AVR1:0
C118	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C119	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C120	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C121	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C122	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C123	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C124	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C125	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C151	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C161	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C162	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C163	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C164	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C165	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C166	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C167	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C169	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C170	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C171	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C172	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C173	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C174	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C175	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C181	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C182	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C183	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C184	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C201	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C202	Open	F101, F102 opened. No hazard.	AVR1:0
	Short	See page 56.	
C203	Open	F101, F102 opened. No hazard.	AVR1:0
	Short	See page 56.	
C204	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C205	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C206	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C207	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C208	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C210	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C211	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C212	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C213	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C221	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C222	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C223	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C224	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C230	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C301	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C302	Open	No hazard.	AVR1:0
	Short	See page 56.	
C303	Open	Normal operation.	AVR1:*
	Short	See page 56.	
C304	Open	Normal operation.	AVR1:*
	Short	See page 56.	
C305	Open	Normal operation.	AVR1:*
	Short	See page 56.	
C306	Open	Normal operation.	AVR1:*
	Short	See page 56.	
C307	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C308	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C309	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C310	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C311	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C331	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C332	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C333	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C334	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C336	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C337	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C338	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C339	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C340	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C341	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C361	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C362	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C363	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C364	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C371	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C401	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C402	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C403	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C404	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C405	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0



## F M E A

Component	Mode	Comment	Output Voltage (V)
C406	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C407	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C408	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C421	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C422	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C701	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C702	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C703	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C704	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C705	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C710	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C711	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
C731	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C732	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C771	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C801	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C802	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C803	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C804	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C805	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C806	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C807	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C808	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C809	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
C810	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C811	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C813	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C814	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C815	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C816	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C817	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C819	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C820	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C821	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C831	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C832	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C841	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C842	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C901	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C902	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C903	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C905	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C906	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C907	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C908	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C909	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C910	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C911	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C912	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C913	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C914	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C915	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C916	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C917	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D101	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D102	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D103	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D104	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D105	Open	Normal operation.	AVR1:*
	Short	R106 opened. No hazard.	AVR1:0
D106	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
D107	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D108	Open	No hazard.	AVR1:0
	Short	F101, F102 opened. No hazard.	AVR1:0
D109	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D121	Open	Normal operation.	AVR1:*
	Short	F101, F102 opened. No hazard.	AVR1:0
D122	Open	Normal operation.	AVR1:*
	Short	F101, F102 opened. No hazard.	AVR1:0
D151	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D153	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D154	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D162	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D163	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D164	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D165	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
D166	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D201	Open	See page 56.	
	Short	Normal operation.	AVR1:*
D202	Open	See page 56.	
	Short	Normal operation.	AVR1:*
D221	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D301	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D302	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D303	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D304	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D305	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D331	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D711	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D781	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
D782	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D783	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D784	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
D785	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
D801	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D802	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D901	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
D902	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
FAN901	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
FAN902	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
FAN902	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
IC151	Open	1	F101, F102 opened. No hazard.	AVR1:0
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		8	Normal operation.	AVR1:*
		9	No hazard.	AVR1:0
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	No hazard.	AVR1:0
		13	Normal operation.	AVR1:*
		14	No hazard.	AVR1:0
		15	No hazard.	AVR1:0
		16	No hazard.	AVR1:0
	Short	1-2	Output voltage decreased. No hazard.	AVR1:decreased
		2-3	Output voltage decreased. No hazard.	AVR1:decreased
		3-4	Output voltage decreased. No hazard.	AVR1:decreased
		4-5	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC151	Short	7-8	No hazard.	AVR1:0
		9-10	Normal operation.	AVR1:*
		10-11	Normal operation.	AVR1:*
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	No hazard.	AVR1:0
		14-15	No hazard.	AVR1:0
		15-16	F101, F102 opened. No hazard.	AVR1:0
IC171	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
IC331	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*
		4-5	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC332	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	No hazard.	AVR1:0
		4	Normal operation.	AVR1:*
		5	No hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
IC361	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	No hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	No hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	No hazard.	AVR1:0
IC401	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC401	Open	3	Normal operation.	AVR1:*
		4	Output voltage decreased. No hazard.	AVR1:decreased
		5	Normal operation.	AVR1:*
		6	Output voltage decreased. No hazard.	AVR1:decreased
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	No hazard.	AVR1:0
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
		17	Normal operation.	AVR1:*
		18	No hazard.	AVR1:0
		19	Normal operation.	AVR1:*
		20	No hazard.	AVR1:0
		21	Normal operation.	AVR1:*
		22	Normal operation.	AVR1:*
		23	Normal operation.	AVR1:*
		24	No hazard.	AVR1:0
		25	No hazard.	AVR1:0
		26	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC401	Open	27	See page 56.	
		28	See page 56.	
		29	Normal operation.	AVR1:*
		30	No hazard.	AVR1:0
		31	No hazard.	AVR1:0
		32	Normal operation.	AVR1:*
		33	Normal operation.	AVR1:*
		34	No hazard.	AVR1:0
		35	Normal operation.	AVR1:*
		36	No hazard.	AVR1:0
		37	Normal operation.	AVR1:*
		38	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*
		3-4	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
		5-6	Normal operation.	AVR1:*
		6-7	No hazard.	AVR1:0
		7-8	Normal operation.	AVR1:*
		8-9	No hazard.	AVR1:0
		9-10	No hazard.	AVR1:0
		10-11	Normal operation.	AVR1:*
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC401	Short	13-14	No hazard.	AVR1:0
		14-15	Normal operation.	AVR1:*
		15-16	Normal operation.	AVR1:*
		16-17	Normal operation.	AVR1:*
		17-18	No hazard.	AVR1:0
		18-19	No hazard.	AVR1:0
		20-21	No hazard.	AVR1:0
		21-22	Normal operation.	AVR1:*
		22-23	Normal operation.	AVR1:*
		23-24	Normal operation.	AVR1:*
		24-25	Normal operation.	AVR1:*
		25-26	Normal operation.	AVR1:*
		26-27	No hazard.	AVR1:0
		27-28	No hazard.	AVR1:0
		28-29	No hazard.	AVR1:0
		29-30	No hazard.	AVR1:0
		30-31	No hazard.	AVR1:0
		31-32	No hazard.	AVR1:0
		32-33	Output voltage decreased. No hazard.	AVR1:decreased
		33-34	Output voltage decreased. No hazard.	AVR1:decreased
		34-35	No hazard.	AVR1:0
		35-36	No hazard.	AVR1:0
		36-37	No hazard.	AVR1:0
		37-38	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC402	Open	1	Normal operation.	AVR1:*
		2	See page 56.	
		3	See page 56.	
		4	See page 56.	
		5	See page 56.	
	Short	1-2	Normal operation.	AVR1:*
		2-3	See page 56.	
		4-5	See page 56.	
IC403	Open	1	Normal operation.	AVR1:*
		2	See page 56.	
		3	See page 56.	
		4	See page 56.	
		5	See page 56.	
	Short	1-2	Normal operation.	AVR1:*
		2-3	See page 56.	
		4-5	See page 56.	
IC701	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	Normal operation.	AVR1:*
		6	Output voltage decreased. No hazard.	AVR1:decreased
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC701	Open	9	Normal operation.	AVR1:*
		10	No hazard.	AVR1:0
		11	No hazard.	AVR1:0
		12	No hazard.	AVR1:0
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		15	No hazard.	AVR1:0
		16	No hazard.	AVR1:0
		17	No hazard.	AVR1:0
		18	No hazard.	AVR1:0
		19	Normal operation.	AVR1:*
		20	Normal operation.	AVR1:*
		21	Normal operation.	AVR1:*
		22	No hazard.	AVR1:0
		23	No hazard.	AVR1:0
		24	Normal operation.	AVR1:*
		25	Normal operation.	AVR1:*
		26	Normal operation.	AVR1:*
		27	No hazard.	AVR1:0
		28	Normal operation.	AVR1:*
		29	No hazard.	AVR1:0
		30	Normal operation.	AVR1:*
		31	Normal operation.	AVR1:*
		32	No hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC701	Open	33	No hazard.	AVR1:0
		34	No hazard.	AVR1:0
		35	No hazard.	AVR1:0
		36	Normal operation.	AVR1:*
		37	Normal operation.	AVR1:*
		38	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Output voltage decreased. No hazard.	AVR1:decreased
		7-8	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		9-10	No hazard.	AVR1:0
		10-11	No hazard.	AVR1:0
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	No hazard.	AVR1:0
		14-15	Normal operation.	AVR1:*
		15-16	Normal operation.	AVR1:*
		16-17	Normal operation.	AVR1:*
		17-18	Normal operation.	AVR1:*
		18-19	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC701	Short	20-21	Normal operation.	AVR1:*
		21-22	Normal operation.	AVR1:*
		22-23	No hazard.	AVR1:0
		23-24	No hazard.	AVR1:0
		24-25	Normal operation.	AVR1:*
		25-26	Normal operation.	AVR1:*
		26-27	Normal operation.	AVR1:*
		27-28	Normal operation.	AVR1:*
		28-29	Output voltage decreased. No hazard.	AVR1:decreased
		29-30	Output voltage decreased. No hazard.	AVR1:decreased
		30-31	Normal operation.	AVR1:*
		31-32	Output voltage decreased. No hazard.	AVR1:decreased
		32-33	Output voltage decreased. No hazard.	AVR1:decreased
		33-34	No hazard.	AVR1:0
		34-35	No hazard.	AVR1:0
		35-36	No hazard.	AVR1:0
		36-37	Normal operation.	AVR1:*
		37-38	Normal operation.	AVR1:*
IC711	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC711	Open	7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	Normal operation.	AVR1:*
		14	Normal operation.	AVR1:*
		15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
		9-10	Normal operation.	AVR1:*
		10-11	Normal operation.	AVR1:*
		11-12	Normal operation.	AVR1:*
		12-13	Normal operation.	AVR1:*
		13-14	Normal operation.	AVR1:*
		14-15	Normal operation.	AVR1:*
		15-16	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
IC712	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
IC801	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
IC901	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
IC901	Open	3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	No hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	No hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	No hazard.	AVR1:0
IC902	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
L101	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
L101	Short	1-2	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
L102	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
L103	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
L111	Open		No hazard.	AVR1:0
	Short		F101, F102 opened. No hazard.	AVR1:0
L151	Open		See page 56.	
	Short		Normal operation.	AVR1:*
L152	Open		See page 57.	
	Short		Normal operation.	AVR1:*
L201	Open		See page 57.	
	Short		No hazard.	AVR1:0
L801	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
L901	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
LED761	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
PC401	Open	1	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
	Short	1-3	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
PC402	Open	1	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
	Short	1-3	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
PC403	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
PC771	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
PC772	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
PC831	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0
PC841	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
PTH401	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
R101	Open		Normal operation.	AVR1:*
R102	Open		Normal operation.	AVR1:*
R103	Open		Normal operation.	AVR1:*
R104	Open		Normal operation.	AVR1:*
R105	Open		Normal operation.	AVR1:*
R106	Open		Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
R107	Open	Normal operation.	AVR1:*
R108	Open	Normal operation.	AVR1:*
R110	Open	No hazard.	AVR1:0
R111	Open	No hazard.	AVR1:0
R112	Open	No hazard.	AVR1:0
R131	Open	Normal operation.	AVR1:*
R132	Open	Normal operation.	AVR1:*
R133	Open	Normal operation.	AVR1:*
R134	Open	Normal operation.	AVR1:*
R151	Open	No hazard.	AVR1:0
R152	Open	See page 57.	
R153	Open	See page 57.	
R155	Open	Normal operation.	AVR1:*
R156	Open	No hazard.	AVR1:0
R157	Open	No hazard.	AVR1:0
R160	Open	Normal operation.	AVR1:*
R161	Open	No hazard.	AVR1:0
R162	Open	Normal operation.	AVR1:*
R163	Open	Normal operation.	AVR1:*
R164	Open	Normal operation.	AVR1:*
R165	Open	Normal operation.	AVR1:*
R166	Open	Normal operation.	AVR1:*
R167	Open	Normal operation.	AVR1:*
R168	Open	No hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
R169	Open	Normal operation.	AVR1:*
R170	Open	No hazard.	AVR1:0
R171	Open	No hazard.	AVR1:0
R172	Open	Normal operation.	AVR1:*
R173	Open	Normal operation.	AVR1:*
R174	Open	Normal operation.	AVR1:*
R175	Open	Normal operation.	AVR1:*
R176	Open	Normal operation.	AVR1:*
R177	Open	No hazard.	AVR1:0
R178	Open	Normal operation.	AVR1:*
R180	Open	No hazard.	AVR1:0
R181	Open	No hazard.	AVR1:0
R182	Open	No hazard.	AVR1:0
R183	Open	No hazard.	AVR1:0
R184	Open	No hazard.	AVR1:0
R185	Open	Normal operation.	AVR1:*
R186	Open	Normal operation.	AVR1:*
R187	Open	No hazard.	AVR1:0
R188	Open	Normal operation.	AVR1:*
R191	Open	Normal operation.	AVR1:*
R192	Open	Normal operation.	AVR1:*
R193	Open	Normal operation.	AVR1:*
R194	Open	No hazard.	AVR1:0
R195	Open	No hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
R197	Open	Normal operation.	AVR1:*
R201	Open	Normal operation.	AVR1:*
R202	Open	Normal operation.	AVR1:*
R203	Open	Normal operation.	AVR1:*
R204	Open	Normal operation.	AVR1:*
R205	Open	No hazard.	AVR1:0
R206	Open	No hazard.	AVR1:0
R207	Open	No hazard.	AVR1:0
R211	Open	No hazard.	AVR1:0
R212	Open	F101, F102 opened. No hazard.	AVR1:0
R213	Open	Normal operation.	AVR1:*
R214	Open	F101, F102 opened. No hazard.	AVR1:0
R215	Open	No hazard.	AVR1:0
R216	Open	Normal operation.	AVR1:*
R218	Open	Normal operation.	AVR1:*
R219	Open	Normal operation.	AVR1:*
R221	Open	Normal operation.	AVR1:*
R222	Open	Normal operation.	AVR1:*
R224	Open	No hazard.	AVR1:0
R225	Open	No hazard.	AVR1:0
R226	Open	Normal operation.	AVR1:*
R227	Open	Normal operation.	AVR1:*
R228	Open	Normal operation.	AVR1:*
R231	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R232	Open	Normal operation.	AVR1:*
R233	Open	Normal operation.	AVR1:*
R234	Open	Normal operation.	AVR1:*
R236	Open	No hazard.	AVR1:0
R237	Open	No hazard.	AVR1:0
R238	Open	No hazard.	AVR1:0
R239	Open	No hazard.	AVR1:0
R301	Open	Normal operation.	AVR1:*
R302	Open	Normal operation.	AVR1:*
R303	Open	No hazard.	AVR1:0
R304	Open	No hazard.	AVR1:0
R305	Open	Normal operation.	AVR1:*
R306	Open	Normal operation.	AVR1:*
R307	Open	Normal operation.	AVR1:*
R308	Open	Normal operation.	AVR1:*
R309	Open	No hazard.	AVR1:0
R310	Open	No hazard.	AVR1:0
R311	Open	No hazard.	AVR1:0
R312	Open	Normal operation.	AVR1:*
R313	Open	No hazard.	AVR1:0
R314	Open	Normal operation.	AVR1:*
R315	Open	Normal operation.	AVR1:*
R316	Open	Normal operation.	AVR1:*
R331	Open	No hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
R332	Open	No hazard.	AVR1:0
R333	Open	No hazard.	AVR1:0
R335	Open	Normal operation.	AVR1:*
R338	Open	No hazard.	AVR1:0
R339	Open	No hazard.	AVR1:0
R340	Open	Normal operation.	AVR1:*
R341	Open	Normal operation.	AVR1:*
R342	Open	No hazard.	AVR1:0
R343	Open	No hazard.	AVR1:0
R344	Open	No hazard.	AVR1:0
R345	Open	Normal operation.	AVR1:*
R347	Open	No hazard.	AVR1:0
R348	Open	No hazard.	AVR1:0
R349	Open	No hazard.	AVR1:0
R350	Open	Normal operation.	AVR1:*
R351	Open	Normal operation.	AVR1:*
R361	Open	No hazard.	AVR1:0
R362	Open	Normal operation.	AVR1:*
R369	Open	No hazard.	AVR1:0
R371	Open	Normal operation.	AVR1:*
R372	Open	Normal operation.	AVR1:*
R373	Open	Normal operation.	AVR1:*
R374	Open	Normal operation.	AVR1:*
R375	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R377	Open	Normal operation.	AVR1:*
R378	Open	Normal operation.	AVR1:*
R379	Open	Normal operation.	AVR1:*
R391	Open	No hazard.	AVR1:0
R401	Open	Output voltage decreased. No hazard.	AVR1:decreased
R402	Open	Normal operation.	AVR1:*
R403	Open	Normal operation.	AVR1:*
R404	Open	Normal operation.	AVR1:*
R405	Open	Normal operation.	AVR1:*
R406	Open	Normal operation.	AVR1:*
R407	Open	No hazard.	AVR1:0
R408	Open	Normal operation.	AVR1:*
R409	Open	Normal operation.	AVR1:*
R412	Open	Normal operation.	AVR1:*
R413	Open	Normal operation.	AVR1:*
R414	Open	No hazard.	AVR1:0
R415	Open	Normal operation.	AVR1:*
R421	Open	No hazard.	AVR1:0
R422	Open	No hazard.	AVR1:0
R424	Open	Normal operation.	AVR1:*
R425	Open	Normal operation.	AVR1:*
R426	Open	Normal operation.	AVR1:*
R701	Open	No hazard.	AVR1:0
R702	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R710	Open	Normal operation.	AVR1:*
R711	Open	Normal operation.	AVR1:*
R712	Open	Normal operation.	AVR1:*
R713	Open	No hazard.	AVR1:0
R714	Open	No hazard.	AVR1:0
R715	Open	Normal operation.	AVR1:*
R716	Open	Normal operation.	AVR1:*
R717	Open	Normal operation.	AVR1:*
R718	Open	Normal operation.	AVR1:*
R719	Open	Normal operation.	AVR1:*
R733	Open	Normal operation.	AVR1:*
R734	Open	Normal operation.	AVR1:*
R735	Open	Normal operation.	AVR1:*
R736	Open	Normal operation.	AVR1:*
R761	Open	Normal operation.	AVR1:*
R772	Open	Normal operation.	AVR1:*
R774	Open	Normal operation.	AVR1:*
R784	Open	Normal operation.	AVR1:*
R785	Open	Normal operation.	AVR1:*
R786	Open	Normal operation.	AVR1:*
R787	Open	Normal operation.	AVR1:*
R788	Open	Normal operation.	AVR1:*
R789	Open	Normal operation.	AVR1:*
R791	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R792	Open	Normal operation.	AVR1:*
R793	Open	Normal operation.	AVR1:*
R801	Open	Normal operation.	AVR1:*
R803	Open	Normal operation.	AVR1:*
R804	Open	Normal operation.	AVR1:*
R805	Open	Normal operation.	AVR1:*
R806	Open	Normal operation.	AVR1:*
R807	Open	Normal operation.	AVR1:*
R808	Open	Normal operation.	AVR1:*
R810	Open	Normal operation.	AVR1:*
R812	Open	Normal operation.	AVR1:*
R813	Open	Normal operation.	AVR1:*
R814	Open	Normal operation.	AVR1:*
R815	Open	Normal operation.	AVR1:*
R816	Open	Normal operation.	AVR1:*
R817	Open	Normal operation.	AVR1:*
R818	Open	Normal operation.	AVR1:*
R819	Open	Normal operation.	AVR1:*
R820	Open	Normal operation.	AVR1:*
R824	Open	Normal operation.	AVR1:*
R825	Open	Normal operation.	AVR1:*
R826	Open	Normal operation.	AVR1:*
R827	Open	Normal operation.	AVR1:*
R831	Open	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
R832	Open		Normal operation.	AVR1:*
R841	Open		Normal operation.	AVR1:*
R844	Open		Normal operation.	AVR1:*
R845	Open		Normal operation.	AVR1:*
R902	Open		Normal operation.	AVR1:*
R903	Open		No hazard.	AVR1:0
R904	Open		No hazard.	AVR1:0
R905	Open		Normal operation.	AVR1:*
R906	Open		Normal operation.	AVR1:*
R907	Open		No hazard.	AVR1:0
R908	Open		No hazard.	AVR1:0
R909	Open		No hazard.	AVR1:0
R910	Open		No hazard.	AVR1:0
R911	Open		No hazard.	AVR1:0
R912	Open		Normal operation.	AVR1:*
SS101	Open		No hazard.	AVR1:0
	Short		F101, F102 opened. No hazard.	AVR1:0
SS102	Open		No hazard.	AVR1:0
	Short		F101, F102 opened. No hazard.	AVR1:0
T101	Open	1	See page 57.	
		2	See page 57.	
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	See page 57.	

F M E A

Component	Mode		Comment	Output Voltage (V)
T101	Open	6	See page 57.	
	Short	1-2	See page 57.	
		2-3	See page 57.	
		3-4	No hazard.	AVR1:0
		5-6	See page 57.	
T301	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		9	No hazard.	AVR1:0
		10	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*
		3-4	No hazard.	AVR1:0
TH701	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
TR101	Open	D	See page 57.	
		S	See page 57.	
		G	See page 57.	
	Short	D-S	See page 57.	
		S-G	See page 57.	
		G-D	See page 57.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR102	Open	D	See page 57.	
		S	See page 57.	
		G	See page 57.	
	Short	D-S	See page 57.	
		S-G	See page 57.	
		G-D	See page 57.	
TR151	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR152	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0
TR153	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR161	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR162	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	No hazard.	AVR1:0
		S-G	Normal operation.	AVR1:*
		G-D	No hazard.	AVR1:0
TR163	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR164	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR165	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR166	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR201	Open	D	See page 57.	
		S	See page 58.	
		G	See page 58.	
	Short	D-S	See page 58.	
		S-G	See page 58.	
		G-D	See page 58.	
TR202	Open	D	See page 58.	
		S	See page 58.	
		G	See page 58.	
	Short	D-S	See page 58.	
		S-G	See page 58.	
		G-D	See page 58.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR203	Open	S (1)	F101, F102 opened. No hazard.	AVR1:0
		G (2)	F101, F102 opened. No hazard.	AVR1:0
		D (3)	F101, F102 opened. No hazard.	AVR1:0
		S (4)	F101, F102 opened. No hazard.	AVR1:0
		G (5)	F101, F102 opened. No hazard.	AVR1:0
		D (6)	F101, F102 opened. No hazard.	AVR1:0
	Short	S-G (1-2)	F101, F102 opened. No hazard.	AVR1:0
		G-D (2-3)	F101, F102 opened. No hazard.	AVR1:0
		D-S (3-4)	F101, F102 opened. No hazard.	AVR1:0
		S-G (4-5)	F101, F102 opened. No hazard.	AVR1:0
		G-D (5-6)	F101, F102 opened. No hazard.	AVR1:0
TR204	Open	S (1)	F101, F102 opened. No hazard.	AVR1:0
		G (2)	F101, F102 opened. No hazard.	AVR1:0
		D (3)	F101, F102 opened. No hazard.	AVR1:0
		S (4)	F101, F102 opened. No hazard.	AVR1:0
		G (5)	F101, F102 opened. No hazard.	AVR1:0
		D (6)	F101, F102 opened. No hazard.	AVR1:0
	Short	S-G (1-2)	F101, F102 opened. No hazard.	AVR1:0
		G-D (2-3)	F101, F102 opened. No hazard.	AVR1:0
		D-S (3-4)	F101, F102 opened. No hazard.	AVR1:0
		S-G (4-5)	F101, F102 opened. No hazard.	AVR1:0
		G-D (5-6)	F101, F102 opened. No hazard.	AVR1:0
TR205	Open	D	F101, F102 opened. No hazard.	AVR1:0
		S	F101, F102 opened. No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
TR205	Open	G	F101, F102 opened. No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	Normal operation.	AVR1:*
		G-D	No hazard.	AVR1:0
TR206	Open	D	F101, F102 opened. No hazard.	AVR1:0
		S	F101, F102 opened. No hazard.	AVR1:0
		G	F101, F102 opened. No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	Normal operation.	AVR1:*
		G-D	No hazard.	AVR1:0
TR301	Open	S(1)	No hazard.	AVR1:0
		G(2)	No hazard.	AVR1:0
		D(3)	No hazard.	AVR1:0
		S(4)	No hazard.	AVR1:0
		G(5)	No hazard.	AVR1:0
		D(6)	No hazard.	AVR1:0
	Short	S-G(1-2)	No hazard.	AVR1:0
		G-D(2-3)	No hazard.	AVR1:0
		D-S(3-4)	No hazard.	AVR1:0
		S-G(4-5)	No hazard.	AVR1:0
TR330	Open	D	See page 58.	
		S	See page 58.	
		G	See page 58.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR330	Short	D-S	See page 58.	
		S-G	See page 58.	
		G-D	See page 58.	
TR335	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR336	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0
TR337	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR371	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR371	Short	D-S	No hazard.	AVR1:0
		S-G	Normal operation.	AVR1:*
		G-D	No hazard.	AVR1:0
TR372	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR401	Open	D	Output voltage decreased. No hazard.	AVR1:decreased
		S	Output voltage decreased. No hazard.	AVR1:decreased
		G	Output voltage decreased. No hazard.	AVR1:decreased
	Short	D-S	Normal operation.	AVR1:*
		S-G	R106 opened. No hazard.	AVR1:0
		G-D	R106 opened. No hazard.	AVR1:0
TR424	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR425	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
TR425	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR710	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR731	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0
TR771	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR772	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR772	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR773	Open	1 (1)	Normal operation.	AVR1:*
		1 (2)	Normal operation.	AVR1:*
		2 (3)	Normal operation.	AVR1:*
		2 (4)	Normal operation.	AVR1:*
		2 (5)	Normal operation.	AVR1:*
		1 (6)	Normal operation.	AVR1:*
	Short	1-1 (1-2)	Normal operation.	AVR1:*
		1-2 (2-3)	Normal operation.	AVR1:*
		2-2 (3-4)	Normal operation.	AVR1:*
		2-2 (4-5)	Normal operation.	AVR1:*
		2-1 (5-6)	Normal operation.	AVR1:*
TR791	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0
TR801	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR801	Short	S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR802	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR811	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR812	Open	1 (1)	Normal operation.	AVR1:*
		1 (2)	Normal operation.	AVR1:*
		2 (3)	Normal operation.	AVR1:*
		2 (4)	Normal operation.	AVR1:*
		2 (5)	Normal operation.	AVR1:*
		1 (6)	Normal operation.	AVR1:*
	Short	1-1 (1-2)	Normal operation.	AVR1:*
		1-2 (2-3)	Normal operation.	AVR1:*
		2-2 (3-4)	Normal operation.	AVR1:*
		2-2 (4-5)	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR812	Short	2-1 (5-6)	Normal operation.	AVR1:*
TR841	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR901	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
X111	Open	1	R106 opened. No hazard.	AVR1:0
		2	R106 opened. No hazard.	AVR1:0
		3	R106 opened. No hazard.	AVR1:0
		4	R106 opened. No hazard.	AVR1:0
	Short	1-2	R106 opened. No hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
ZD161	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0
ZD201	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0
ZD202	Open		Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
ZD202	Short	No hazard.	AVR1:0
ZD301	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
ZD331	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
ZD371	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
ZD372	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
ZD781	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD782	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD783	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD784	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
ZD785	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD786	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD801	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD901	Open	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
ZD901	Short	No hazard.	AVR1:0

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C202	Short		No hazard.	AVR1:0
C203	Short		No hazard.	AVR1:0
C302	Short		No hazard.	AVR1:0
C303	Short		No hazard.	AVR1:0
C304	Short		No hazard.	AVR1:0
C305	Short		No hazard.	AVR1:0
C306	Short		No hazard.	AVR1:0
D201	Open		No hazard.	AVR1:0
D202	Open		No hazard.	AVR1:0
IC401	Open	27	No hazard.	AVR1:0
		28	No hazard.	AVR1:0
IC402	Open	2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
	Short	2-3	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
IC403	Open	2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
	Short	2-3	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
L151	Open		F101 opened. No hazard.	AVR1:0



## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
L152	Open		F101 opened. No hazard.	AVR1:0
L201	Open		Normal operation.	AVR1:*
R152	Open		Normal operation.	AVR1:*
R153	Open		Normal operation.	AVR1:*
T101	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
TR101	Open	D	F101 opened. No hazard.	AVR1:0
		S	F101 opened. No hazard.	AVR1:0
		G	F101 opened. No hazard.	AVR1:0
	Short	D-S	F101, F102 opened. No hazard.	AVR1:0
		S-G	F101 opened. No hazard.	AVR1:0
		G-D	F102 opened. No hazard.	AVR1:0
TR102	Open	D	F101 opened. No hazard.	AVR1:0
		S	F101 opened. No hazard.	AVR1:0
		G	F101 opened. No hazard.	AVR1:0
	Short	D-S	F101, F102 opened. No hazard.	AVR1:0
		S-G	F101 opened. No hazard.	AVR1:0
		G-D	F102 opened. No hazard.	AVR1:0
TR201	Open	D	No hazard.	AVR1:0

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR201	Open	S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR202	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR330	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	D305, T301(5-7) opened. No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	D305, T301(5-7) opened. No hazard.	AVR1:0