

ABNORMAL TEST RESULT

OF MODEL CQHS250

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 : 2/34 ~ 28/34)

(Abnormal Test Result: 29/34 ~ 34/34)

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)
C100	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C101	Open	Normal operation.	AVR1:**
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C102	Open	Normal operation.	AVR1:**
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C103	Open	Normal operation.	AVR1:**
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C104	Open	Normal operation.	AVR1:**
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C105	Open	Normal operation.	AVR1:**
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C107	Open	Normal operation.	AVR1:**
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C108	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C109	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C110	Open	Normal operation.	AVR1:**
	Short	See 29 Page.	
C111	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C112	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
C113	Open	See 29 Page.	
	Short	No Hazard.	AVR1:0[V]
C114	Open	See 29 Page.	
	Short	No Hazard.	AVR1:0[V]
C115	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C116	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C121	Open	Output voltage decreased. No hazard.	AVR1:decreased
	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	See 29 Page.	
C201	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C202	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C203	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C204	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
C205	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C211	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C212	Open	Normal operation.	AVR1:**
	Short	See 29 Page.	
C221	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C233	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
C241	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C242	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C301	Open	Normal operation.	AVR1:**
	Short	See 29 Page.	
C321	Open	Normal operation.	AVR1:**
	Short	See 29 Page.	
C322	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C501	Open	Normal operation.	AVR1:**
	Short	See 29 Page.	
C502	Open	Normal operation.	AVR1:**
	Short	See 29 Page.	

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Component	Mode	Comment	Output Voltage (V)
C503	Open	Normal operation.	AVR1:**
	Short	See 29 Page.	
C504	Open	Normal operation.	AVR1:**
	Short	See 29 Page.	
C505	Open	Normal operation.	AVR1:**
	Short	See 29 Page.	
C506	Open	Normal operation.	AVR1:**
	Short	See 29 Page.	
C531	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C532	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C533	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C534	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C535	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C536	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C611	Open	See 29 Page.	
	Short	Normal operation.	AVR1:**
C621	Open	See 29 Page.	
	Short	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
C622	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C623	Open	See 29 Page.	
	Short	Normal operation.	AVR1:*
C624	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C625	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C651	Open	See 29 Page.	
	Short	Normal operation.	AVR1:*
C652	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C661	Open	See 29 Page.	
	Short	No Hazard.	AVR1:0[V]
C662	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C664	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C665	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C701	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C702	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]

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Component	Mode	Comment	Output Voltage (V)
C703	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C705	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C706	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C707	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C708	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C709	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C710	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C711	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C712	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C713	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D105	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
D106	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]

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Component	Mode	Comment	Output Voltage (V)
D115	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No hazard.	AVR1:0[V]
D116	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No hazard.	AVR1:0[V]
D231	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
D232	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D241	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
D301	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D311	Open	See 29 Page.	
	Short	No Hazard.	AVR1:0[V]
D531	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D622	Open	See 29 Page.	
	Short	Normal operation.	AVR1:*
D651	Open	See 29 Page.	
	Short	No Hazard.	AVR1:0[V]
D661	Open	See 30 Page.	
	Short	Normal operation.	AVR1:*
D701	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
IC111	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
		6	No Hazard.	AVR1:0[V]
		7	No Hazard.	AVR1:0[V]
		8	No Hazard.	AVR1:0[V]
	Short	1-2	See 30 Page.	
		2-3	External Fuse opened, No hazard.	AVR1:0[V]
		3-4	No Hazard.	AVR1:0[V]
		5-6	External Fuse opened, No hazard.	AVR1:0[V]
		6-7	No Hazard.	AVR1:0[V]
		7-8	No Hazard.	AVR1:0[V]
IC112	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
		6	No Hazard.	AVR1:0[V]
		7	No Hazard.	AVR1:0[V]
		8	No Hazard.	AVR1:0[V]
	Short	1-2	See 30 Page.	
		2-3	External Fuse opened, No hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
IC112	Short	3-4	No Hazard.	AVR1:0[V]
		5-6	External Fuse opened, No hazard.	AVR1:0[V]
		6-7	No Hazard.	AVR1:0[V]
		7-8	No Hazard.	AVR1:0[V]
IC201	Open	1	No Hazard.	AVR1:0[V]
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
		6	No Hazard.	AVR1:0[V]
		7	No Hazard.	AVR1:0[V]
		8	No Hazard.	AVR1:0[V]
		9	No Hazard.	AVR1:0[V]
		10	No Hazard.	AVR1:0[V]
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	Normal operation.	AVR1:*
		14	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	No Hazard.	AVR1:0[V]
		6-7	No Hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
IC201	Short	8-9	Normal operation.	AVR1:*
		9-10	No Hazard.	AVR1:0[V]
		10-11	No Hazard.	AVR1:0[V]
		11-12	Normal operation.	AVR1:*
		12-13	Normal operation.	AVR1:*
		13-14	Output voltage decreased. No hazard.	AVR1:decreased
IC232	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	External Fuse opened, No hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]
IC233	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	No Hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
IC234	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	No Hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]
IC235	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	External Fuse opened, No hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]
IC321	Open	1	No Hazard.	AVR1:0[V]
		2	Normal operation.	AVR1:*
		3	See 30 Page.	
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	No Hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
IC321	Short	1-2	Normal operation.	AVR1:*
		2-3	See 30 Page.	
		3-4	See 30 Page.	
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
IC701	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	No Hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]
IC702	Open	1	No Hazard.	AVR1:0[V]
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0[V]
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	No Hazard.	AVR1:0[V]
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	No Hazard.	AVR1:0[V]
		4-5	Normal operation.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
IC702	Short	5-6	Normal operation.	AVR1:*
L101	Open		No Hazard.	AVR1:0[V]
	Short		Normal operation.	AVR1:*
PC201	Open	A, K	No Hazard.	AVR1:0[V]
		C, E	No Hazard.	AVR1:0[V]
	Short	A-K	No Hazard.	AVR1:0[V]
		C-E	No Hazard.	AVR1:0[V]
SS121	Open	1	Output voltage decreased. No hazard.	AVR1:decreased
		2	Output voltage decreased. No hazard.	AVR1:decreased
		3	Output voltage decreased. No hazard.	AVR1:decreased
		4	Output voltage decreased. No hazard.	AVR1:decreased
		5	Output voltage decreased. No hazard.	AVR1:decreased
		6	Output voltage decreased. No hazard.	AVR1:decreased
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	No Hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]
		5-6	No Hazard.	AVR1:0[V]
TH201	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0[V]
TR101	Open	D	See 30 Page.	
		S	See 30 Page.	
		G	See 30 Page.	
	Short	D-S	See 30 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR101	Short	S-G	See 30 Page.	
		G-D	See 30 Page.	
TR102	Open	D	See 30 Page.	
		S	See 30 Page.	
		G	See 30 Page.	
	Short	D-S	See 30 Page.	
		S-G	See 30 Page.	
		G-D	See 30 Page.	
TR103	Open	D	See 30 Page.	
		S	See 30 Page.	
		G	See 30 Page.	
	Short	D-S	See 30 Page.	
		S-G	See 30 Page.	
		G-D	See 30 Page.	
TR104	Open	D	See 31 Page.	
		S	See 31 Page.	
		G	See 31 Page.	
	Short	D-S	See 31 Page.	
		S-G	See 31 Page.	
		G-D	See 31 Page.	
TR121	Open	1E	Normal operation.	AVR1:*
		2E	Output voltage decreased. No hazard.	AVR1:decreased
		3B	Output voltage decreased. No hazard.	AVR1:decreased
		4C	Output voltage decreased. No hazard.	AVR1:decreased

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Component	Mode		Comment	Output Voltage (V)
TR121	Open	5B	Normal operation.	AVR1:**
		6C	Normal operation.	AVR1:**
	Short	1E-2E	Normal operation.	AVR1:**
		2E-3B	Output voltage decreased. No hazard.	AVR1:decreased
		3B-4C	Output voltage decreased. No hazard.	AVR1:decreased
		4C-5B	Normal operation.	AVR1:**
		5B-6C	No Hazard.	AVR1:0[V]
TR123	Open	1E	Output voltage decreased. No hazard.	AVR1:decreased
		2B	Output voltage decreased. No hazard.	AVR1:decreased
		3C	Normal operation.	AVR1:**
		4E	Normal operation.	AVR1:**
		5B	Normal operation.	AVR1:**
		6C	Normal operation.	AVR1:**
	Short	1E-2B	Normal operation.	AVR1:**
		2B-3C	Normal operation.	AVR1:**
		3C-4E	Normal operation.	AVR1:**
		4E-5B	Normal operation.	AVR1:**
		5B-6C	Normal operation.	AVR1:**
TR211	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
		G	Normal operation.	AVR1:**
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	Normal operation.	AVR1:**
		G-D	No Hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
TR301	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	See 31 Page.	
		E-B	Normal operation.	AVR1:*
		B-C	See 31 Page.	
TR320	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	See 31 Page.	
		E-B	Normal operation.	AVR1:*
		B-C	See 31 Page.	
TR511	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	See 31 Page.	
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	See 31 Page.	
		G-D	No Hazard.	AVR1:0[V]
TR512	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	See 31 Page.	
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	See 31 Page.	
		G-D	No Hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
TR521	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	See 31 Page.	
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	See 31 Page.	
		G-D	No Hazard.	AVR1:0[V]
TR522	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	See 31 Page.	
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	See 31 Page.	
		G-D	No Hazard.	AVR1:0[V]
TR523	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	See 31 Page.	
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR531	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	Normal operation.	AVR1:*
		G-D	No Hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
TR532	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:*
TR611	Open	1S	See 31 Page.	
		2G	See 31 Page.	
		3D	See 31 Page.	
		4S	See 31 Page.	
		5G	See 31 Page.	
		6D	See 32 Page.	
	Short	1S-2G	Normal operation.	AVR1:*
		2G-3D	Normal operation.	AVR1:*
		3D-4S	See 32 Page.	
		4S-5G	See 32 Page.	
		5G-6D	No Hazard.	AVR1:0[V]
TR612	Open	D	See 32 Page.	
		S	See 32 Page.	
		G	Normal operation.	AVR1:*
	Short	D-S	See 32 Page.	
		S-G	Normal operation.	AVR1:*
		G-D	See 32 Page.	
TR621	Open	C	See 32 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR621	Open	E	See 32 Page.	
		B	See 32 Page.	
	Short	C-E	Normal operation.	AVR1:*
		E-B	See 32 Page.	
		B-C	Normal operation.	AVR1:*
TR622	Open	C	See 32 Page.	
		E	See 32 Page.	
		B	See 32 Page.	
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	See 32 Page.	
		B-C	No Hazard.	AVR1:0[V]
TR623	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	See 32 Page.	
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR624	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	See 32 Page.	
		E-B	No Hazard.	AVR1:0[V]
		B-C	No Hazard.	AVR1:0[V]
TR651	Open	1S	See 32 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR651	Open	2G	See 32 Page.	
		3D	See 32 Page.	
		4S	See 32 Page.	
		5G	See 32 Page.	
		6D	See 32 Page.	
	Short	1S-2G	Normal operation.	AVR1:*
		2G-3D	Normal operation.	AVR1:*
		3D-4S	See 32 Page.	
		4S-5G	See 32 Page.	
		5G-6D	No Hazard.	AVR1:0[V]
TR661	Open	C	See 33 Page.	
		E	See 33 Page.	
		B	See 33 Page.	
	Short	C-E	Normal operation.	AVR1:*
		E-B	See 32 Page.	
		B-C	Normal operation.	AVR1:*
TR662	Open	C	See 33 Page.	
		E	See 33 Page.	
		B	See 33 Page.	
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	See 33 Page.	
		B-C	No Hazard.	AVR1:0[V]
TR663	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR663	Open	G	No Hazard.	AVR1:0[V]
	Short	D-S	See 33 Page.	
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR664	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	See 33 Page.	
		E-B	No Hazard.	AVR1:0[V]
		B-C	No Hazard.	AVR1:0[V]
TR701	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	No Hazard.	AVR1:0[V]
		B-C	No Hazard.	AVR1:0[V]
TR801	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	No Hazard.	AVR1:0[V]
		B-C	See 33 Page.	
ZD221	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
ZD301	Open	See 33 Page.	
	Short	Normal operation.	AVR1:*
ZD531	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD621	Open	Normal operation.	AVR1:*
	Short	See 33 Page.	
ZD622	Open	Normal operation.	AVR1:*
	Short	See 33 Page.	
ZD661	Open	Normal operation.	AVR1:*
	Short	See 33 Page.	
ZD662	Open	Normal operation.	AVR1:*
	Short	See 33 Page.	
ZD701	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
ZD702	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
ZD801	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
R101	Open	Normal operation.	AVR1:*
R102	Open	Normal operation.	AVR1:*
R103	Open	Normal operation.	AVR1:*
R104	Open	Normal operation.	AVR1:*
R105	Open	No Hazard.	AVR1:0[V]
R107	Open	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
R109	Open	No Hazard.	AVR1:0[V]
R111	Open	No Hazard.	AVR1:0[V]
R113	Open	No Hazard.	AVR1:0[V]
R114	Open	No Hazard.	AVR1:0[V]
R115	Open	No Hazard.	AVR1:0[V]
R116	Open	No Hazard.	AVR1:0[V]
R120	Open	Output voltage decreased. No hazard.	AVR1:decreased
R122	Open	Normal operation.	AVR1:*
R123	Open	Normal operation.	AVR1:*
R124	Open	Normal operation.	AVR1:*
R127	Open	Normal operation.	AVR1:*
R128	Open	Output voltage decreased. No hazard.	AVR1:decreased
R129	Open	No Hazard.	AVR1:0[V]
R130	Open	Normal operation.	AVR1:*
R201	Open	No Hazard.	AVR1:0[V]
R202	Open	No Hazard.	AVR1:0[V]
R203	Open	No Hazard.	AVR1:0[V]
R204	Open	Normal operation.	AVR1:*
R206	Open	No Hazard.	AVR1:0[V]
R207	Open	No Hazard.	AVR1:0[V]
R210	Open	No Hazard.	AVR1:0[V]
R211	Open	No Hazard.	AVR1:0[V]
R213	Open	No Hazard.	AVR1:0[V]
R214	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R215	Open	Normal operation.	AVR1:**
R221	Open	Normal operation.	AVR1:**
R222	Open	No Hazard.	AVR1:0[V]
R223	Open	Normal operation.	AVR1:**
R234	Open	No Hazard.	AVR1:0[V]
R235	Open	No Hazard.	AVR1:0[V]
R236	Open	No Hazard.	AVR1:0[V]
R241	Open	No Hazard.	AVR1:0[V]
R242	Open	No Hazard.	AVR1:0[V]
R243	Open	No Hazard.	AVR1:0[V]
R244	Open	Normal operation.	AVR1:**
R245	Open	Normal operation.	AVR1:**
R301	Open	Normal operation.	AVR1:**
R302	Open	Normal operation.	AVR1:**
R303	Open	Normal operation.	AVR1:**
R304	Open	Normal operation.	AVR1:**
R305	Open	Normal operation.	AVR1:**
R311	Open	See 33 Page.	
R322	Open	See 33 Page.	
R323	Open	No Hazard.	AVR1:0[V]
R324	Open	No Hazard.	AVR1:0[V]
R511	Open	Normal operation.	AVR1:**
R512	Open	Normal operation.	AVR1:**
R513	Open	See 33 Page.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R521	Open	Normal operation.	AVR1:**
R522	Open	Normal operation.	AVR1:**
R523	Open	See 33 Page.	
R524	Open	Normal operation.	AVR1:**
R531	Open	Normal operation.	AVR1:**
R532	Open	Normal operation.	AVR1:**
R533	Open	Normal operation.	AVR1:**
R534	Open	Normal operation.	AVR1:**
R611	Open	Normal operation.	AVR1:**
R612	Open	Normal operation.	AVR1:**
R613	Open	Normal operation.	AVR1:**
R614	Open	See 33 Page.	
R615	Open	No Hazard.	AVR1:0[V]
R616	Open	See 33 Page.	
R621	Open	See 33 Page.	
R622	Open	See 33 Page.	
R623	Open	Normal operation.	AVR2:**
R624	Open	Normal operation.	AVR1:**
R625	Open	No Hazard.	AVR1:0[V]
R626	Open	Output voltage decreased. No hazard.	AVR1:decreased
R651	Open	Normal operation.	AVR1:**
R652	Open	Normal operation.	AVR1:**
R653	Open	Normal operation.	AVR1:**
R654	Open	See 33 Page.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R655	Open	No Hazard.	AVR1:0[V]
R657	Open	See 34 Page.	
R658	Open	Normal operation.	AVR1:*
R659	Open	See 34 Page.	
R661	Open	See 34 Page.	
R662	Open	See 34 Page.	
R663	Open	Normal operation.	AVR1:*
R665	Open	No Hazard.	AVR1:0[V]
R666	Open	Output voltage decreased. No hazard.	AVR1:decreased
R701	Open	No Hazard.	AVR1:0[V]
R702	Open	Normal operation.	AVR1:*
R703	Open	Normal operation.	AVR1:*
R704	Open	No Hazard.	AVR1:0[V]
R705	Open	No Hazard.	AVR1:0[V]
R706	Open	Normal operation.	AVR1:*
R707	Open	No Hazard.	AVR1:0[V]
R708	Open	Normal operation.	AVR1:*
R709	Open	No Hazard.	AVR1:0[V]
R710	Open	No Hazard.	AVR1:0[V]
R711	Open	No Hazard.	AVR1:0[V]
R712	Open	No Hazard.	AVR1:0[V]
R713	Open	No Hazard.	AVR1:0[V]
R714	Open	No Hazard.	AVR1:0[V]
R715	Open	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R716	Open	Normal operation.	AVR1:*
R717	Open	Normal operation.	AVR1:*
R801	Open	No Hazard.	AVR1:0[V]
R802	Open	No Hazard.	AVR1:0[V]
R803	Open	Normal operation.	AVR1:*
R804	Open	Normal operation.	AVR1:*
R805	Open	Normal operation.	AVR1:*

ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C110	Short	No Hazard.	AVR1:0[V]
C113	Open	External Fuse opened, No hazard.	AVR1:0[V]
C114	Open	External Fuse opened, No hazard.	AVR1:0[V]
C124	Short	No Hazard.	AVR1:0[V]
C201	Short	No Hazard.	AVR1:0[V]
C212	Short	No Hazard.	AVR1:0[V]
C301	Short	No Hazard.	AVR1:0[V]
C321	Short	No Hazard.	AVR1:0[V]
C501	Short	No Hazard.	AVR1:0[V]
C502	Short	No Hazard.	AVR1:0[V]
C503	Short	No Hazard.	AVR1:0[V]
C504	Short	No Hazard.	AVR1:0[V]
C505	Short	No Hazard.	AVR1:0[V]
C506	Short	No Hazard.	AVR1:0[V]
C611	Open	No Hazard.	AVR1:0[V]
C621	Open	No Hazard.	AVR1:0[V]
C622	Short	No Hazard.	AVR1:0[V]
C623	Open	No Hazard.	AVR1:0[V]
C651	Open	No Hazard.	AVR1:0[V]
C661	Open	No Hazard.	AVR1:0[V]
C662	Short	No Hazard.	AVR1:0[V]
D311	Open	Normal operation.	AVR1:*
D622	Open	External Fuse opened, No hazard.	AVR1:0[V]
D651	Open	No Hazard.	AVR1:0[V]

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
D661	Open		No Hazard.	AVR1:0[V]
IC111	Short	1-2	External Fuse opened, No hazard.	AVR1:0[V]
IC112	Short	1-2	External Fuse opened, No hazard.	AVR1:0[V]
IC321	Open	3	No Hazard.	AVR1:0[V]
	Short	2-3	No Hazard.	AVR1:0[V]
		3-4	External Fuse opened, No hazard.	AVR1:0[V]
TR101	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	External Fuse opened, No hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	External Fuse opened, No hazard.	AVR1:0[V]
TR102	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	External Fuse opened, No hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	External Fuse opened, No hazard.	AVR1:0[V]
TR103	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	External Fuse opened, No hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	External Fuse opened, No hazard.	AVR1:0[V]

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR104	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	External Fuse opened, No hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	External Fuse opened, No hazard.	AVR1:0[V]
TR301	Short	C-E	No Hazard.	AVR1:0[V]
		B-C	No Hazard.	AVR1:0[V]
TR320	Short	C-E	External Fuse opened, No hazard.	AVR1:0[V]
		B-C	External Fuse opened, No hazard.	AVR1:0[V]
TR511	Open	G	No Hazard.	AVR1:0[V]
	Short	S-G	No Hazard.	AVR1:0[V]
TR512	Open	G	No Hazard.	AVR1:0[V]
	Short	S-G	No Hazard.	AVR1:0[V]
TR521	Open	G	No Hazard.	AVR1:0[V]
	Short	S-G	No Hazard.	AVR1:0[V]
TR522	Open	G	No Hazard.	AVR1:0[V]
	Short	S-G	No Hazard.	AVR1:0[V]
TR523	Short	D-S	No Hazard.	AVR1:0[V]
TR611	Open	1S	No Hazard.	AVR1:0[V]
		2G	No Hazard.	AVR1:0[V]
		3D	No Hazard.	AVR1:0[V]
		4S	No Hazard.	AVR1:0[V]
		5G	No Hazard.	AVR1:0[V]

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR611	Open	6D	No Hazard.	AVR1:0[V]
	Short	3D-4S	No Hazard.	AVR1:0[V]
		4S-5G	No Hazard.	AVR1:0[V]
TR612	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
	Short	D-S	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR621	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
TR622	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	E-B	No Hazard.	AVR1:0[V]
TR623	Short	D-S	No Hazard.	AVR1:0[V]
TR624	Short	C-E	No Hazard.	AVR1:0[V]
TR651	Open	1S	No Hazard.	AVR1:0[V]
		2G	No Hazard.	AVR1:0[V]
		3D	No Hazard.	AVR1:0[V]
		4S	No Hazard.	AVR1:0[V]
		5G	No Hazard.	AVR1:0[V]
		6D	No Hazard.	AVR1:0[V]
	Short	3D-4S	No Hazard.	AVR1:0[V]
		4S-5G	No Hazard.	AVR1:0[V]

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR661	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
TR662	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	E-B	No Hazard.	AVR1:0[V]
TR663	Short	D-S	No Hazard.	AVR1:0[V]
TR664	Short	C-E	No Hazard.	AVR1:0[V]
TR801	Short	B-C	No Hazard.	AVR1:*
ZD301	Open		No Hazard.	AVR1:0[V]
ZD621	Short		No Hazard.	AVR1:0[V]
ZD622	Short		No Hazard.	AVR1:0[V]
ZD661	Short		No Hazard.	AVR1:0[V]
ZD662	Short		No Hazard.	AVR1:0[V]
R311	Open		Normal operation.	AVR1:*
R322	Open		External Fuse opened, No hazard.	AVR1:0[V]
R513	Open		No Hazard.	AVR1:0[V]
R523	Open		No Hazard.	AVR1:0[V]
R614	Open		No Hazard.	AVR1:0[V]
R616	Open		No Hazard.	AVR1:0[V]
R621	Open		No Hazard.	AVR1:0[V]
R622	Open		No Hazard.	AVR1:0[V]
R654	Open		No Hazard.	AVR1:0[V]



ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
R657	Open	No Hazard.	AVR1:0[V]
R659	Open	No Hazard.	AVR1:0[V]
R661	Open	No Hazard.	AVR1:0[V]
R662	Open	No Hazard.	AVR1:0[V]