

**COSEL**

## ABNORMAL TEST RESULT

OF MODEL DHS200A12, 15, 24

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 : 2/30 ~ 28/30)

( Abnormal Test Result: 29/30 ~ 30/30)

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)
C11	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C12	Open	Normal operation.	AVR1:*
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C21	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C22	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C24	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C31	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C32	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C34	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C51	Open	Normal operation. (only 12V)	AVR1:*
	Short	See 29 Page.	
C52	Open	Normal operation. (only 24V)	AVR1:*
	Short	Normal operation. (only 24V)	AVR1:*
C53	Open	Normal operation. (expect 24V)	AVR1:*
	Short	See 29 Page. (expect 24V)	
C62	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C63	Open	Normal operation. (only 12V)	AVR1:*
	Short	Normal operation. (only 12V)	AVR1:*
C64	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C65	Open	Normal operation. (only 12V)	AVR1:*
	Short	Normal operation. (only 12V)	AVR1:*
C81	Open	Normal operation. (only 24V)	AVR1:*
	Short	Output voltage decreased. No hazard. (only 24V)	AVR1:decreased
C82	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C83	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C84	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C85	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C86	Open	Output voltage decreased. No hazard. (only 24V)	AVR1:*
	Short	Normal operation. (only 24V)	AVR1:decreased
C87	Open	Output voltage decreased. No hazard. (only 24V)	AVR1:*
	Short	Normal operation. (only 24V)	AVR1:decreased
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]

## F M E A

Component	Mode	Comment	Output Voltage (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]
C111	Open	See 29 Page.	
	Short	See 29 Page.	
C112	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C113	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C114	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C115	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0[V]
C131	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C132	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C151	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C152	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]

## F M E A

Component	Mode	Comment	Output Voltage (V)
C181	Open	No hazard.	AVR1:0[V]
	Short	No hazard.	AVR1:0[V]
C182	Open	No hazard.	AVR1:0[V]
	Short	No hazard.	AVR1:0[V]
C201	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C221	Open	Normal operation.	AVR1:0[V]
	Short	No hazard.	AVR1:0[V]
C222	Open	Normal operation.	AVR1:0[V]
	Short	See 29 Page.	
C231	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C251	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C261	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C271	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C301	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C302	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C303	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]

## F M E A

Component	Mode	Comment	Output Voltage (V)
C304	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C305	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C331	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0[V]
C332	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C333	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C351	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C352	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:decreased
C531	Open	No hazard.	AVR1:0[V]
	Short	No hazard.	AVR1:0[V]
C532	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C541	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C551	Open	Normal operation.	AVR1:上昇
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C552	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased

## F M E A

Component	Mode	Comment	Output Voltage (V)
C562	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C563	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C564	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C565	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C566	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C574	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C575	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C576	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C577	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C581	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C582	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C601	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C602	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C603	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C604	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D11	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D21	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D22	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D23	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D24	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D31	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D32	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D33	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D34	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
D111	Open	No hazard.	AVR1:0[V]
	Short	No hazard.	AVR1:0[V]
D112	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
D113	Open	No hazard.	AVR1:0[V]
	Short	Output voltage decreased. No hazard.	AVR1:decreased
D151	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
D152	Open	No hazard.	AVR1:0[V]
	Short	Normal operation.	AVR1:*
D153	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D154	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D181	Open	No hazard.	AVR1:0[V]
	Short	No hazard.	AVR1:0[V]
D202	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D331	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D333	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
D351	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
D352	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D531	Open		No hazard.	AVR1:0[V]
	Short		Normal operation.	AVR1:*
D532	Open		No hazard.	AVR1:0[V]
	Short		No hazard.	AVR1:0[V]
D561	Open		Normal operation.	AVR1:*
	Short		Output voltage decreased.No hazard.	AVR1:decreased
D562	Open		Normal operation.	AVR1:*
	Short		Output voltage decreased.No hazard.	AVR1:decreased
D563	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0[V]
IC201	Open	1	No hazard.	AVR1:0[V]
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	No hazard.	AVR1:0[V]
		6	No hazard.	AVR1:0[V]
		7	No hazard.	AVR1:0[V]
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		11	Output voltage decreased.No hazard.	AVR1:decreased
		12	No hazard.	AVR1:0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	13	Normal operation.	AVR1:*
		14	Normal operation.	AVR1:*
		15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
		17	Normal operation.	AVR1:*
		18	Normal operation.	AVR1:*
		19	Normal operation.	AVR1:*
		20	No hazard.	AVR1:0[V]
	Short	1-2	No hazard.	AVR1:0[V]
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	No hazard.	AVR1:0[V]
		7-8	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		9-10	Output voltage decreased.No hazard.	AVR1:decreased
		11-12	Output voltage decreased.No hazard.	AVR1:decreased
		12-13	Normal operation.	AVR1:*
		13-14	Normal operation.	AVR1:*
		14-15	No hazard.	AVR1:0[V]
		15-16	No hazard.	AVR1:0[V]
		16-17	No hazard.	AVR1:0[V]
		17-18	No hazard.	AVR1:0[V]

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## F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Short	18-19	Normal operation.	AVR1:*
		19-20	Normal operation.	AVR1:*
IC202	Open	1	Normal operation.	AVR1:*
		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]
		4-5	No hazard.	AVR1:0[V]
IC221	Open	K	See 29 Page.	
		A	See 29 Page.	
		R	See 29 Page.	
	Short	A-R	See 29 Page.	
IC331	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	Normal operation.	AVR1:*
		6	No hazard.	AVR1:0[V]
		7	Normal operation.	AVR1:*
		8	No hazard.	AVR1:0[V]
	Short	1-2	No hazard.	AVR1:0[V]
		2-3	No hazard.	AVR1:0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC331	Short	3-4	No hazard.	AVR1:0[V]
		5-6	No hazard.	AVR1:0[V]
		6-7	No hazard.	AVR1:0[V]
		7-8	No hazard.	AVR1:0[V]
IC332	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]
		4-5	See 29 Page.	
IC551	Open	K	No hazard.	AVR1:0[V]
		R	No hazard.	AVR1:0[V]
		A	No hazard.	AVR1:0[V]
	Short	K-A	Output voltage decreased.No hazard.	AVR1:decreased
		A-R	Output voltage decreased.No hazard.	AVR1:decreased
IC561	Open	1	No hazard.	AVR1:0[V]
		2	No hazard.	AVR1:0[V]
		3	Output voltage decreased.No hazard.	AVR1:decreased
		4	No hazard.	AVR1:0[V]
		5	No hazard.	AVR1:0[V]
	Short	1-2	No hazard.	AVR1:0[V]
		2-3	Output voltage decreased.No hazard.	AVR1:decreased

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC561	Short	4-5	No hazard.	AVR1:0[V]
IC581	Open	K	Normal operation.	AVR1:*
		A	Normal operation.	AVR1:*
		R	Normal operation.	AVR1:*
	Short	A-R	Normal operation.	AVR1:*
L51	Open		Output voltage decreased.No hazard.	AVR1:decreased
	Short		Output voltage decreased.No hazard.	AVR1:decreased
L101	Open		No hazard.	AVR1:0[V]
	Short		Normal operation.	AVR1:*
PC251	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0[V]
PC351	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]
R11	Open		Output voltage decreased.No hazard.	AVR1:decreased
R21	Open		Normal operation.	AVR1:*
R22	Open		Normal operation.	AVR1:*
R23	Open		Normal operation.	AVR1:*
R24	Open		See 30 Page.	
R25	Open		Normal operation.	AVR1:*
R31	Open		Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R32	Open	Normal operation.	AVR1:*
R33	Open	Normal operation.	AVR1:*
R34	Open	See 30 Page.	
R35	Open	Normal operation.	AVR1:*
R36	Open	Normal operation.	AVR1:*
R51	Open	Normal operation.	AVR1:*
R52	Open	Normal operation.	AVR1:*
R53	Open	Normal operation.	AVR1:*
R54	Open	Normal operation.	AVR1:*
R55	Open	Normal operation.	AVR1:*
R56	Open	Normal operation.	AVR1:*
R57	Open	Normal operation.	AVR1:*
R58	Open	Normal operation. (except 24V)	AVR1:*
R61	Open	Normal operation.	AVR1:*
R62	Open	Normal operation.	AVR1:*
R63	Open	Normal operation.	AVR1:*
R64	Open	Normal operation.	AVR1:*
R65	Open	Normal operation.	AVR1:*
R66	Open	Normal operation.	AVR1:*
R67	Open	Normal operation.	AVR1:*
R68	Open	Normal operation.	AVR1:*
R69	Open	Normal operation.	AVR1:*
R70	Open	Normal operation.	AVR1:*
R71	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R72	Open	Normal operation.	AVR1:*
R73	Open	Normal operation.	AVR1:*
R74	Open	Normal operation.	AVR1:*
R75	Open	Normal operation.	AVR1:*
R76	Open	Normal operation.	AVR1:*
R77	Open	Normal operation. (only 15V)	AVR1:*
R78	Open	Normal operation. (only 15V)	AVR1:*
R79	Open	Normal operation. (only 15V)	AVR1:*
R81	Open	Normal operation.	AVR1:*
R82	Open	Normal operation.	AVR1:*
R91	Open	Normal operation. (only 15V)	AVR1:*
R92	Open	Normal operation. (only 15V)	AVR1:*
R111	Open	No hazard.	AVR1:0[V]
R112	Open	No hazard.	AVR1:0[V]
R113	Open	No hazard.	AVR1:0[V]
R114	Open	No hazard.	AVR1:0[V]
R115	Open	Normal operation.	AVR1:*
R116	Open	Normal operation.	AVR1:*
R117	Open	Normal operation.	AVR1:*
R118	Open	Normal operation.	AVR1:*
R119	Open	Normal operation.	AVR1:*
R120	Open	Normal operation.	AVR1:*
R121	Open	No hazard.	AVR1:0[V]
R122	Open	No hazard.	AVR1:0[V]



## F M E A

Component	Mode	Comment	Output Voltage (V)
R123	Open	Normal operation.	AVR1:*
R131	Open	No hazard.	AVR1:0[V]
R132	Open	No hazard.	AVR1:0[V]
R133	Open	No hazard.	AVR1:0[V]
R134	Open	No hazard.	AVR1:0[V]
R135	Open	No hazard.	AVR1:0[V]
R136	Open	No hazard.	AVR1:0[V]
R137	Open	No hazard.	AVR1:0[V]
R138	Open	Normal operation.	AVR1:*
R151	Open	Normal operation.	AVR1:*
R152	Open	Normal operation.	AVR1:*
R153	Open	Normal operation.	AVR1:*
R154	Open	No hazard.	AVR1:0[V]
R155	Open	Normal operation.	AVR1:*
R156	Open	Normal operation.	AVR1:*
R181	Open	Normal operation.	AVR1:*
R182	Open	Normal operation.	AVR1:*
R183	Open	No hazard.	AVR1:0[V]
R201	Open	No hazard.	AVR1:0[V]
R202	Open	Normal operation.	AVR1:*
R221	Open	No hazard.	AVR1:0[V]
R222	Open	See 30 Page.	
R223	Open	No hazard.	AVR1:0[V]
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:*
R235	Open	No hazard.	AVR1:0[V]
R251	Open	Normal operation.	AVR1:*
R252	Open	Normal operation.	AVR1:*
R261	Open	No hazard.	AVR1:0[V]
R262	Open	Normal operation.	AVR1:*
R265	Open	Normal operation.	AVR1:*
R271	Open	No hazard.	AVR1:0[V]
R301	Open	No hazard.	AVR1:0[V]
R302	Open	No hazard.	AVR1:0[V]
R303	Open	No hazard.	AVR1:0[V]
R304	Open	No hazard.	AVR1:0[V]
R305	Open	No hazard.	AVR1:0[V]
R306	Open	Normal operation.	AVR1:*
R307	Open	Normal operation.	AVR1:*
R308	Open	Normal operation.	AVR1:*
R331	Open	No hazard.	AVR1:0[V]
R332	Open	No hazard.	AVR1:0[V]
R333	Open	No hazard.	AVR1:0[V]
R334	Open	Normal operation.	AVR1:*
R335	Open	Normal operation.	AVR1:*
R336	Open	No hazard.	AVR1:0[V]

## F M E A

Component	Mode	Comment	Output Voltage (V)
R351	Open	No hazard.	AVR1:0[V]
R352	Open	Normal operation.	AVR1:*
R353	Open	Normal operation.	AVR1:*
R354	Open	Normal operation.	AVR1:*
R355	Open	Normal operation.	AVR1:*
R356	Open	Normal operation.	AVR1:*
R357	Open	No hazard.	AVR1:0[V]
R541	Open	See 30 Page.	
R551	Open	Output voltage decreased.No hazard.	AVR1:decreased
R552	Open	Output voltage decreased.No hazard.	AVR1:decreased
R553	Open	No hazard.	AVR1:0[V]
R554	Open	Output voltage decreased.No hazard.	AVR1:decreased
R555	Open	Normal operation.	AVR1:*
R561	Open	No hazard.	AVR1:0[V]
R562	Open	Output voltage decreased.No hazard.	AVR1:decreased
R563	Open	Normal operation.	AVR1:*
R564	Open	Normal operation.	AVR1:*
R565	Open	Output voltage decreased.No hazard.	AVR1:decreased
R566	Open	Output voltage decreased.No hazard.	AVR1:decreased
R567	Open	No hazard.	AVR1:0[V]
R568	Open	Output voltage decreased.No hazard.	AVR1:decreased
R569	Open	Output voltage decreased.No hazard.	AVR1:decreased
R570	Open	Output voltage decreased.No hazard.	AVR1:decreased
R571	Open	Output voltage decreased.No hazard.	AVR1:decreased

## F M E A

Component	Mode		Comment	Output Voltage (V)
R572	Open		Normal operation.	AVR1:*
R573	Open		Normal operation.	AVR1:*
R574	Open		No hazard.	AVR1:0[V]
R581	Open		Normal operation.	AVR1:*
R582	Open		Normal operation.	AVR1:*
R583	Open		Normal operation.	AVR1:*
R584	Open		Normal operation.	AVR1:*
R585	Open		Normal operation.	AVR1:*
R586	Open		Normal operation.	AVR1:*
R587	Open		Normal operation.	AVR1:*
R588	Open		No hazard.	AVR1:0[V]
R591	Open		Normal operation.	AVR1:*
R601	Open		See 30 Page.	
SS51	Open		See 29 Page.	
	Short		Output voltage decreased.No hazard.	AVR1:decreased
SS61	Open		See 29 Page.	
	Short		Output voltage decreased.No hazard.	AVR1:decreased
T11	Open	1	No hazard.	AVR1:0[V]
		2	No hazard.	AVR1:0[V]
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	See 29 Page.	
		7	See 29 Page.	
	Short	1-2	External Fuse opened, No hazard.	AVR1:0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
T11	Short	3-4	Normal operation.	AVR1:*
		4-5	Output voltage decreased.No hazard.	AVR1:decreased
T12	Short	5-7	Output voltage decreased.No hazard.	AVR1:decreased
T101	Open	1	No hazard.	AVR1:0[V]
		3	No hazard.	AVR1:0[V]
		9	No hazard.	AVR1:0[V]
		10	No hazard.	AVR1:0[V]
	Short	1-3	No hazard.	AVR1:0[V]
		9-10	No hazard.	AVR1:0[V]
T151	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		4	No hazard.	AVR1:0[V]
		5	No hazard.	AVR1:0[V]
		6	No hazard.	AVR1:0[V]
		7	No hazard.	AVR1:0[V]
		9	No hazard.	AVR1:0[V]
		10	No hazard.	AVR1:0[V]
	Short	1-2	No hazard.	AVR1:0[V]
		4-5	No hazard.	AVR1:0[V]
		6-7	No hazard.	AVR1:0[V]
		9-10	No hazard.	AVR1:0[V]
T181	Open	3	No hazard.	AVR1:0[V]
		4	No hazard.	AVR1:0[V]
		5	No hazard.	AVR1:0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
T181	Open	6	No hazard.	AVR1:0[V]
	Short	3-4	No hazard.	AVR1:0[V]
		5-6	No hazard.	AVR1:0[V]
TH11	Short		No hazard.	AVR1:0[V]
	Open		Normal operation.	AVR1:*
TR21	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	See 29 Page.	
	Short	D-S	See 29 Page.	
		S-G	No hazard.	AVR1:0[V]
		G-D	See 29 Page.	
TR22	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	No hazard.	AVR1:0[V]
TR31	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	See 29 Page.	
	Short	D-S	See 29 Page.	
		S-G	No hazard.	AVR1:0[V]
		G-D	See 30 Page.	
TR32	Open	C	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR32	Open	E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0[V]
TR111	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		S-G	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
TR112	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0[V]
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0[V]
TR113	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:*
TR151	Open	D	No hazard.	AVR1:0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR151	Open	S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		S-G	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
TR152	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]
TR181	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		S-G	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
TR182	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		S-G	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
TR201	Open	D	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR201	Open	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]
TR221	Open	C	No hazard.	AVR1:0[V]
		E	No hazard.	AVR1:0[V]
		B	No hazard.	AVR1:0[V]
	Short	C-E	See 30 Page.	
		E-B	No hazard.	AVR1:0[V]
		B-C	See 30 Page.	
TR231	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0[V]
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0[V]
TR301	Open	C	No hazard.	AVR1:0[V]
		E	No hazard.	AVR1:0[V]
		B	No hazard.	AVR1:0[V]
	Short	C-E	Normal operation.	AVR1:*
		E-B	No hazard.	AVR1:0[V]
		B-C	Normal operation.	AVR1:*
TR302	Open	C	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR302	Open	E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0[V]
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0[V]
TR303	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0[V]
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0[V]
TR304	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0[V]
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0[V]
TR331	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		S-G	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
TR332	Open	C	No hazard.	AVR1:0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR332	Open	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]
TR333	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]
TR541	Open	C	No hazard.	AVR1:0[V]
		E	No hazard.	AVR1:0[V]
		B	No hazard.	AVR1:0[V]
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	See 30 Page.	
TR561	Open	C	No hazard.	AVR1:0[V]
		E	No hazard.	AVR1:0[V]
		B	No hazard.	AVR1:0[V]
	Short	C-E	Output voltage decreased.No hazard.	AVR1:decreased
		E-B	No hazard.	AVR1:0[V]
		B-C	Output voltage decreased.No hazard.	AVR1:decreased
TR581	Open	C	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR581	Open	E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0[V]
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0[V]
ZD111	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0[V]
ZD112	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0[V]
ZD541	Open		See 30 Page.	
	Short		No hazard.	AVR1:0[V]

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C51	Short		Output voltage decreased.No hazard.	AVR1:decreased
C53	Short		Output voltage decreased.No hazard.	AVR1:decreased
C111	Open		No hazard.	AVR1:0[V]
	Short		No hazard.	AVR1:0[V]
C201	Short		No hazard.	AVR1:0[V]
C222	Short		No hazard.	AVR1:0[V]
C261	Short		No hazard.	AVR1:0[V]
C333	Short		No hazard.	AVR1:0[V]
C541	Short		Output voltage increased.No hazard.	AVR1:increased
C562	Short		Output voltage increased.No hazard.	AVR1:increased
IC221	Open	K	No hazard.	AVR1:0[V]
		A	No hazard.	AVR1:0[V]
		R	No hazard.	AVR1:0[V]
	Short	A-R	No hazard.	AVR1:0[V]
IC332	Short	4-5	No hazard.	AVR1:0[V]
SS51	Open		External Fuse opened, No hazard.	AVR1:0[V]
SS61	Open		External Fuse opened, No hazard.	AVR1:0[V]
T11	Open	5	External Fuse opened, No hazard.	AVR1:0[V]
		7	External Fuse opened, No hazard.	AVR1:0[V]
TR21	Open	G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR31	Open	G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR31	Short	G-D	Normal operation.	AVR1:*
TR221	Short	C-E	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR541	Short	B-C	Normal operation.	AVR1:*
ZD541	Open		Normal operation.	AVR1:*
R24	Open		Normal operation.	AVR1:*
R34	Open		Normal operation.	AVR1:*
R222	Open		Normal operation.	AVR1:*
R541	Open		Normal operation.	AVR1:*
R601	Open		No hazard.	AVR1:0[V]