

## ABNORMAL TEST RESULT

## OF MODEL DHS100B

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 : 2/20 ~ 18/20)

( Abnormal Test Result: 19/20 ~ 20/20)

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	Normal operation.	AVR1:*
C12	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C51	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C52	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C53	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C54	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	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]
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]
C111	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C121	Open	Normal operation.	AVR1:*
	Short	See 19 Page.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
C131	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C132	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C142	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Normal operation.	AVR1:*
C161	Open	See 19 Page.	
	Short	See 19 Page.	
C162	Open	See 19 Page.	
	Short	See 19 Page.	
C201	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
C211	Open	No Hazard.	AVR1:0 [V]
	Short	Normal operation.	AVR1:*
C221	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C231	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
C232	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
C233	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
C234	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C235	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
C236	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C241	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0 [V]
C242	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C251	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C261	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Normal operation.	AVR1:*
C262	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C501	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C502	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C511	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C512	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C521	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C522	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C711	Open	No Hazard.	AVR1:0 [V]
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C712	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
C714	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
C721	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
C722	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C723	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0 [V]
C724	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C725	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C741	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0 [V]
D111	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D131	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
D141	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D152	Open	See 19 Page.	
	Short	Normal operation.	AVR1:*
D161	Open	See 19 Page.	
	Short	See 19 Page.	
D162	Open	See 19 Page.	
	Short	See 19 Page.	
D231	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D232	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D233	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
D251	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D252	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
D253	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D254	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D711	Open	No Hazard.	AVR1:0 [V]
	Short	No Hazard.	AVR1:0 [V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
D712	Open		No Hazard.	AVR1:0 [V]
	Short		No Hazard.	AVR1:0 [V]
D721	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D722	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
IC201	Open	1	No Hazard.	AVR1:0 [V]
		2	External Fuse opened, No hazard.	AVR1:0 [V]
		3	External Fuse opened, No hazard.	AVR1:0 [V]
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	No Hazard.	AVR1:0 [V]
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	No Hazard.	AVR1:0 [V]
		11	No Hazard.	AVR1:0 [V]
		12	Output voltage decreased. No hazard.	AVR1:decreased
		13	Output voltage decreased. No hazard.	AVR1:decreased
		14	Normal operation.	AVR1:*
		15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
		17	Output voltage decreased. No hazard.	AVR1:decreased
		18	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	19	Normal operation.	AVR1:**
		20	No Hazard.	AVR1:0 [V]
	Short	1-2	External Fuse opened, No hazard.	AVR1:0 [V]
		2-3	No Hazard.	AVR1:0 [V]
		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:**
		8-9	Normal operation.	AVR1:**
		9-10	No Hazard.	AVR1:0 [V]
		11-12	No Hazard.	AVR1:0 [V]
		12-13	No Hazard.	AVR1:0 [V]
		13-14	Normal operation.	AVR1:**
		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:**
		19-20	No Hazard.	AVR1:0 [V]
IC721	Open	K	No Hazard.	AVR1:0 [V]
		A	No Hazard.	AVR1:0 [V]
		R	No Hazard.	AVR1:0 [V]
	Short	A-K	No Hazard.	AVR1:0 [V]



F M E A

Component	Mode		Comment	Output Voltage (V)
IC721	Short	K-R	Output voltage decreased. No hazard.	AVR1:decreased
		R-A	No Hazard.	AVR1:0 [V]
L51	Open		See 19 Page.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
L101	Open		No Hazard.	AVR1:0 [V]
	Short		Normal operation.	AVR1:*
PC211	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No Hazard.	AVR1:0 [V]
PC231	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]
PTH11	Open		No Hazard.	AVR1:0 [V]
	Short		Normal operation.	AVR1:*
SS51	Open		See 19 Page.	
	Short		See 19 Page.	
SS52	Open		See 19 Page.	
	Short		See 19 Page.	
T11	Open	1	See 19 Page.	
		2	See 19 Page.	
		5	No Hazard.	AVR1:0 [V]
		7	No Hazard.	AVR1:0 [V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
T11	Open	8	External Fuse opened, No hazard.	AVR1:0 [V]
		9	External Fuse opened, No hazard.	AVR1:0 [V]
	Short	1-2	See 19 Page.	
		5-7	See 19 Page.	
		8-9	See 19 Page.	
TR11	Open	D	See 19 Page.	
		S	See 19 Page.	
		G	See 19 Page.	
	Short	D-S	See 19 Page.	
		S-G	See 20 Page.	
		G-D	See 20 Page.	
TR12	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	External Fuse opened, No hazard.	AVR1:0 [V]
		S-G	Normal operation.	AVR1:*
		G-D	External Fuse opened, No hazard.	AVR1:0 [V]
TR121	Open	C	No Hazard.	AVR1:0 [V]
		E	No Hazard.	AVR1:0 [V]
		B	No Hazard.	AVR1:0 [V]
	Short	C-E	External Fuse opened, No hazard.	AVR1:0 [V]
		E-B	Normal operation.	AVR1:*
		B-C	External Fuse opened, No hazard.	AVR1:0 [V]
TR122	Open	C	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR122	Open	E	External Fuse opened, No hazard.	AVR1:0 [V]
		B	External Fuse opened, No hazard.	AVR1:0 [V]
	Short	C-E	No Hazard.	AVR1:0 [V]
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0 [V]
TR131	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]
TR132	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]
TR133	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]
TR151	Open	C	See 20 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR151	Open	E	See 20 Page.	
		B	See 20 Page.	
	Short	C-E	See 20 Page.	
		E-B	See 20 Page.	
		B-C	See 20 Page.	
TR152	Open	C	See 20 Page.	
		E	See 20 Page.	
		B	See 20 Page.	
	Short	C-E	Normal operation.	AVR1:*
		E-B	See 20 Page.	
		B-C	Normal operation.	AVR1:*
TR221	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]
TR222	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]
TR231	Open	C	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR231	Open	E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR711	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]
VR241	Open	brush	Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
ZD111	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
ZD131	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
ZD151	Open		See 20 Page.	
	Short		See 20 Page.	
ZD152	Open		See 20 Page.	
	Short		Normal operation.	AVR1:*
ZD153	Open		See 20 Page.	
	Short		Normal operation.	AVR1:*
ZD154	Open		See 20 Page.	

F M E A

Component	Mode	Comment	Output Voltage (V)
ZD154	Short	See 20 Page.	
ZD155	Open	See 20 Page.	
	Short	Normal operation.	AVR1:*
ZD251	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
ZD711	Open	No Hazard.	AVR1:0 [V]
	Short	No Hazard.	AVR1:0 [V]
ZD761	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
ZD762	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
R111	Open	Normal operation.	AVR1:*
R112	Open	Normal operation.	AVR1:*
R113	Open	Normal operation.	AVR1:*
R114	Open	Normal operation.	AVR1:*
R115	Open	Normal operation.	AVR1:*
R116	Open	Normal operation.	AVR1:*
R117	Open	Normal operation.	AVR1:*
R121	Open	No Hazard.	AVR1:0 [V]
R122	Open	No Hazard.	AVR1:0 [V]
R123	Open	Normal operation.	AVR1:*
R124	Open	Normal operation.	AVR1:*
R125	Open	No Hazard.	AVR1:0 [V]
R127	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R131	Open	Normal operation.	AVR1:*
R132	Open	Normal operation.	AVR1:*
R133	Open	Normal operation.	AVR1:*
R134	Open	Normal operation.	AVR1:*
R135	Open	Normal operation.	AVR1:*
R136	Open	Normal operation.	AVR1:*
R137	Open	Normal operation.	AVR1:*
R138	Open	Normal operation.	AVR1:*
R141	Open	Output voltage decreased. No hazard.	AVR1:decreased
R142	Open	Normal operation.	AVR1:*
R143	Open	Normal operation.	AVR1:*
R144	Open	Output voltage decreased. No hazard.	AVR1:decreased
R151	Open	See 20 Page.	
R152	Open	See 20 Page.	
R153	Open	See 20 Page.	
R154	Open	Normal operation.	AVR1:*
R155	Open	Normal operation.	AVR1:*
R156	Open	Normal operation.	AVR1:*
R157	Open	Normal operation.	AVR1:*
R161	Open	Normal operation.	AVR1:*
R162	Open	Normal operation.	AVR1:*
R201	Open	No Hazard.	AVR1:0 [V]
R211	Open	Normal operation.	AVR1:*
R213	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R221	Open	Normal operation.	AVR1:*
R222	Open	Normal operation.	AVR1:*
R224	Open	Normal operation.	AVR1:*
R231	Open	Normal operation.	AVR1:*
R232	Open	Normal operation.	AVR1:*
R233	Open	Normal operation.	AVR1:*
R234	Open	Normal operation.	AVR1:*
R236	Open	Normal operation.	AVR1:*
R237	Open	Normal operation.	AVR1:*
R238	Open	Normal operation.	AVR1:*
R241	Open	No Hazard.	AVR1:0 [V]
R242	Open	No Hazard.	AVR1:0 [V]
R243	Open	Output voltage decreased. No hazard.	AVR1:decreased
R244	Open	Output voltage decreased. No hazard.	AVR1:decreased
R245	Open	Normal operation.	AVR1:*
R251	Open	Normal operation.	AVR1:*
R252	Open	Normal operation.	AVR1:*
R253	Open	Normal operation.	AVR1:*
R254	Open	Normal operation.	AVR1:*
R255	Open	Normal operation.	AVR1:*
R501	Open	Normal operation.	AVR1:*
R502	Open	Normal operation.	AVR1:*
R503	Open	Normal operation.	AVR1:*
R504	Open	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R511	Open	Normal operation.	AVR1:*
R512	Open	Normal operation.	AVR1:*
R513	Open	Normal operation.	AVR1:*
R514	Open	Normal operation.	AVR1:*
R515	Open	Normal operation.	AVR1:*
R516	Open	Normal operation.	AVR1:*
R517	Open	Normal operation.	AVR1:*
R518	Open	Normal operation.	AVR1:*
R521	Open	Normal operation.	AVR1:*
R522	Open	Normal operation.	AVR1:*
R523	Open	Normal operation.	AVR1:*
R524	Open	Normal operation.	AVR1:*
R525	Open	Normal operation.	AVR1:*
R526	Open	Normal operation.	AVR1:*
R711	Open	No Hazard.	AVR1:0 [V]
R712	Open	No Hazard.	AVR1:0 [V]
R713	Open	No Hazard.	AVR1:0 [V]
R721	Open	No Hazard.	AVR1:0 [V]
R722	Open	No Hazard.	AVR1:0 [V]
R724	Open	Normal operation.	AVR1:*
R725	Open	Output voltage decreased. No hazard.	AVR1:decreased
R726	Open	Normal operation.	AVR1:*
R727	Open	Normal operation.	AVR1:*
R728	Open	No Hazard.	AVR1:0 [V]

F M E A

Component	Mode	Comment	Output Voltage (V)
R729	Open	Output voltage decreased. No hazard.	AVR1:decreased
R740	Open	No Hazard.	AVR1:0 [V]
R741	Open	No Hazard.	AVR1:0 [V]
R742	Open	No Hazard.	AVR1:0 [V]
R743	Open	Output voltage decreased. No hazard.	AVR1:decreased
R750	Open	Normal operation.	AVR1:*
R761	Open	Normal operation.	AVR1:*
R762	Open	Normal operation.	AVR1:*
R763	Open	Normal operation.	AVR1:*

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C121	Short		External Fuse opened, No hazard.	AVR1:0 [V]
C161	Open		No Hazard.	AVR1:0 [V]
	Short		Normal operation.	AVR1:*
C162	Open		No Hazard.	AVR1:0 [V]
	Short		No Hazard.	AVR1:0 [V]
D152	Open		Normal operation.	AVR1:*
D161	Open		No Hazard.	AVR1:0 [V]
	Short		No Hazard.	AVR1:0 [V]
D162	Open		No Hazard.	AVR1:0 [V]
	Short		No Hazard.	AVR1:0 [V]
L51	Open		No Hazard.	AVR1:0 [V]
SS51	Open		No Hazard.	AVR1:0 [V]
	Short		No Hazard.	AVR1:0 [V]
SS52	Open		No Hazard.	AVR1:0 [V]
	Short		No Hazard.	AVR1:0 [V]
T11	Open	1	No Hazard.	AVR1:0 [V]
		2	No Hazard.	AVR1:0 [V]
	Short	1-2	No Hazard.	AVR1:0 [V]
		5-7	No Hazard.	AVR1:0 [V]
		8-9	No Hazard.	AVR1:0 [V]
TR11	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]

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR11	Short	S-G	No Hazard.	AVR1:0 [V]
		G-D	No Hazard.	AVR1:0 [V]
TR151	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	No Hazard.	AVR1:0 [V]
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR152	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]
ZD151	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0 [V]
ZD152	Open		No Hazard.	AVR1:0 [V]
ZD153	Open		No Hazard.	AVR1:0 [V]
ZD154	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0 [V]
ZD155	Open		No Hazard.	AVR1:0 [V]
R151	Open		No Hazard.	AVR1:0 [V]
R152	Open		No Hazard.	AVR1:0 [V]
R153	Open		No Hazard.	AVR1:0 [V]