

ABNORMAL TEST RESULT

OF MODEL DPG500/750

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 ~ 19/20)

(Abnormal Test Result: 20/20 ~ 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.	
	Short	See 20 Page.	
C20	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C21	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C22	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C101	Open	Normal operation.	
	Short	No Hazard.	
C102	Open	No Hazard.	
	Short	No Hazard.	
C103	Open	Normal operation.	
	Short	Normal operation.	
C104	Open	Normal operation.	
	Short	No Hazard.	
C105	Open	Normal operation.	
	Short	No Hazard.	
C106	Open	Normal operation.	
	Short	No Hazard.	
C107	Open	No Hazard.	
	Short	No Hazard.	
C108	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C109	Open	Normal operation.	
	Short	Output voltage increased. No hazard.	
C110	Open	Normal operation.	
	Short	No Hazard.	
C111	Open	Normal operation.	
	Short	No Hazard.	
C112	Open	Normal operation.	
	Short	No Hazard.	
C201	Open	No Hazard.	
	Short	Normal operation.	
C202	Open	No Hazard.	
	Short	No Hazard.	
C204	Open	Normal operation.	
	Short	No Hazard.	
C205	Open	Normal operation.	
	Short	Output voltage increased. No hazard.	
C206	Open	Normal operation.	
	Short	No Hazard.	
C208	Open	Normal operation.	
	Short	Normal operation.	
C301	Open	Normal operation.	
	Short	No Hazard.	
C302	Open	Normal operation.	
	Short	No Hazard.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C303	Open	Normal operation.	
	Short	No Hazard.	
C304	Open	No Hazard.	
	Short	No Hazard.	
C305	Open	Normal operation.	
	Short	No Hazard.	
C306	Open	Normal operation.	
	Short	No Hazard.	
C307	Open	Normal operation.	
	Short	See 20 Page.	
C308	Open	No Hazard.	
	Short	No Hazard.	
C309	Open	Normal operation.	
	Short	No Hazard.	
C310	Open	Normal operation.	
	Short	No Hazard.	
C401	Open	Normal operation.	
	Short	Normal operation.	
C402	Open	Normal operation.	
	Short	Normal operation.	
C403	Open	Normal operation.	
	Short	Normal operation.	
DI01	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
D102	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
D103	Open	Normal operation.	
	Short	Normal operation.	
D104	Open	Normal operation.	
	Short	Normal operation.	
D105	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	
D106	Open	Normal operation.	
	Short	Normal operation.	
D107	Open	Normal operation.	
	Short	Normal operation.	
D202	Open	No Hazard.	
	Short	No Hazard.	
D203	Open	Normal operation.	
	Short	Normal operation.	
D301	Open	Normal operation.	
	Short	No Hazard.	
D302	Open	No Hazard.	
	Short	No Hazard.	
D303	Open	Normal operation.	
	Short	No Hazard.	
D401	Open	Normal operation.	
	Short	Normal operation.	

F M E A

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

F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Short	10-11	Output voltage increased. No hazard.	
		11-12	No Hazard.	
		12-13	No Hazard.	
		13-14	No Hazard.	
		14-15	No Hazard.	
		15-16	External Fuse opened, No hazard.	AVR1:0
IC202	Open	1	Output voltage decreased. No hazard.	
		2	No Hazard.	
		3	Normal operation.	
		4	No Hazard.	
		5	No Hazard.	
		6	Normal operation.	
		7	Normal operation.	
		8	No Hazard.	
		9	No Hazard.	
		10	Normal operation.	
		11	Normal operation.	
		12	No Hazard.	
		13	Normal operation.	
		14	No Hazard.	
		15	No Hazard.	
		16	No Hazard.	
	Short	1-2	No Hazard.	
		2-3	No Hazard.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC202	Short	3-4	Normal operation.	
		4-5	No Hazard.	
		5-6	Normal operation.	
		6-7	Normal operation.	
		7-8	Output voltage decreased. No hazard.	
		9-10	Normal operation.	
		10-11	Normal operation.	
		11-12	Output voltage decreased. No hazard.	
		12-13	Normal operation.	
		13-14	Normal operation.	
		14-15	No Hazard.	
		15-16	No Hazard.	
IC301	Open	1	Normal operation.	
		2	Normal operation.	
		3	No Hazard.	
		4	No Hazard.	
		5	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		4-5	No Hazard.	
IC302	Open	1	Normal operation.	
		2	Normal operation.	
		3	Normal operation.	
		4	No Hazard.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC302	Open	5	No Hazard.	
	Short	1-2	Normal operation.	
		2-3	No Hazard.	
		4-5	Normal operation.	
IC303	Open	1	No Hazard.	
		2	No Hazard.	
		3	No Hazard.	
		4	No Hazard.	
		5	No Hazard.	
	Short	1-2	Normal operation.	
		2-3	No Hazard.	
		4-5	No Hazard.	
	J11	Open		Normal operation.
J12	Open		Normal operation.	
J13	Open		Normal operation.	
J14	Open		Normal operation.	
L11	Open		No Hazard.	
	Short		External Fuse opened, No hazard.	AVR1:0
L12	Open		External Fuse opened, No hazard.	AVR1:0
	Short		Normal operation.	
L13	Open	(750only)	External Fuse opened, No hazard.	AVR1:0
	Short	(750only)	Normal operation.	
SCR11	Open	A	Normal operation.	
		K	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
SCR11	Open	G	Normal operation.	
	Short	A-K	See 20 Page.	
		A-G	See 20 Page.	
		K-G	See 20 Page.	
SS11	Open		No Hazard.	AVR1:0
	Short		External Fuse opened, No hazard.	AVR1:0
SS12	Open		No Hazard.	AVR1:0
	Short		External Fuse opened, No hazard.	AVR1:0
SS13	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0
SS14	Open		External Fuse opened, No hazard.	AVR1:0
	Short		External Fuse opened, No hazard.	AVR1:0
T301	Open	2	No Hazard.	
		4	No Hazard.	
		7	No Hazard.	
		9	No Hazard.	
	Short	2-4	No Hazard.	
		7-9	No Hazard.	
TR12	Open	D (DPG750)	See 20 Page.	
		D (DPG500)	See 20 Page.	
		S	See 20 Page.	
		G	See 20 Page.	
	Short	D-S	See 20 Page.	
		S-G	See 20 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR12	Short	G-D	See 20 Page.	
TR13	Open	D(750only)	See 20 Page.	
		S(750only)	See 20 Page.	
		G(750only)	See 20 Page.	
	Short	D-S(750only)	See 20 Page.	
		S-G(750only)	See 20 Page.	
		G-D(750only)	See 20 Page.	
TR15	Open	D	See 20 Page.	
		S	See 20 Page.	
		G	See 20 Page.	
	Short	D-S	See 20 Page.	
		S-G	See 20 Page.	
		G-D	See 20 Page.	
TR101	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR102	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR102	Short	G-D	Normal operation.	
TR201	Open	C	Normal operation.	
		E	Normal operation.	
		B	No Hazard.	
	Short	C-E	No Hazard.	
		E-B	Normal operation.	
		B-C	No Hazard.	
TR202	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	No Hazard.	
TR203	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR204	Open	D	Normal operation.	
		S	Normal operation.	
		G	No Hazard.	
	Short	D-S	No Hazard.	
		S-G	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR204	Short	G-D	No Hazard.	
TR301	Open	C	No Hazard.	
		E	No Hazard.	
		B	No Hazard.	
	Short	C-E	No Hazard.	
		E-B	Normal operation.	
		B-C	No Hazard.	
TR302	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	
		E-B	Normal operation.	
		B-C	No Hazard.	
TR303	Open	D(6)	No Hazard.	
		S(1)	No Hazard.	
		G(2)	No Hazard.	
	Short	D-S(6-1)	No Hazard.	
		S-G(1-2)	No Hazard.	
		G-D(2-6)	No Hazard.	
	Open	D(3)	No Hazard.	
		S(4)	No Hazard.	
		G(5)	No Hazard.	
	Short	D-S(3-4)	No Hazard.	
S-G(4-5)		No Hazard.		

F M E A

Component	Mode		Comment	Output Voltage (V)
TR303	Short	G-D(5-3)	No Hazard.	
TR304	Open	D(6)	Normal operation.	
		S(1)	Normal operation.	
		G(2)	Normal operation.	
	Short	D-S(6-1)	Normal operation.	
		S-G(1-2)	Normal operation.	
		G-D(2-6)	Normal operation.	
	Open	D(3)	Normal operation.	
		S(4)	Normal operation.	
		G(5)	Normal operation.	
	Short	D-S(3-4)	Normal operation.	
		S-G(4-5)	Normal operation.	
		G-D(5-3)	Normal operation.	
TR305	Open	D	Normal operation.	
		S	Normal operation.	
		G	No Hazard.	
	Short	D-S	No Hazard.	
		S-G	Normal operation.	
		G-D	No Hazard.	
TR306	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	
		E-B	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR306	Short	B-C	No Hazard.	
TR401	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
ZD202	Open		Normal operation.	
	Short		Normal operation.	
ZD301	Open		Normal operation.	
	Short		No Hazard.	
ZD302	Open		Normal operation.	
	Short		No Hazard.	
ZD305	Open		Normal operation.	
	Short		No Hazard.	
ZD306	Open		Normal operation.	
	Short		No Hazard.	
R11	Open		Output voltage decreased. No hazard.	
R12	Open		Output voltage decreased. No hazard.	
R13	Open		External Fuse opened, No hazard.	AVR1:0
R14	Open	(750only)	External Fuse opened, No hazard.	AVR1:0
R15	Open		Normal operation.	
R16	Open	(750only)	Normal operation.	
R17	Open		No Hazard.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R101	Open	No Hazard.	
R102	Open	No Hazard.	
R103	Open	No Hazard.	
R104	Open	No Hazard.	
R105	Open	No Hazard.	
R106	Open	No Hazard.	
R107	Open	No Hazard.	
R108	Open	Output voltage decreased. No hazard.	
R109	Open	Normal operation.	
R110	Open	No Hazard.	
R111	Open	No Hazard.	
R112	Open	Normal operation.	
R113	Open	No Hazard.	
R114	Open	No Hazard.	
R115	Open	Normal operation.	
R116	Open	Normal operation.	
R117	Open	Normal operation.	
R118	Open	Normal operation.	
R119	Open	Normal operation.	
R120	Open	No Hazard.	
R121	Open	Normal operation.	
R122	Open	Normal operation.	
R123	Open	Normal operation.	
R124	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R125	Open	Normal operation.	
R126	Open	Normal operation.	
R127	Open	Normal operation.	
R128	Open	Normal operation.	
R130	Open	Normal operation.	
R201	Open	Normal operation.	
R202	Open	No Hazard.	
R203	Open	No Hazard.	
R204	Open	Normal operation.	
R205	Open	No Hazard.	
R206	Open	Normal operation.	
R207	Open	Normal operation.	
R209	Open	Normal operation.	
R210	Open	Normal operation.	
R211	Open	No Hazard.	
R212	Open	Normal operation.	
R213	Open	Output voltage decreased. No hazard.	
R214	Open	Output voltage decreased. No hazard.	
R215	Open	No Hazard.	
R216	Open	No Hazard.	
R301	Open	Normal operation.	
R302	Open	Normal operation.	
R303	Open	Normal operation.	
R304	Open	No Hazard.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R305	Open	No Hazard.	
R306	Open	No Hazard.	
R307	Open	Normal operation.	
R308	Open	No Hazard.	
R309	Open	No Hazard.	
R310	Open	Normal operation.	
R311	Open	Normal operation.	
R312	Open	No Hazard.	
R313	Open	No Hazard.	
R314	Open	Normal operation.	
R315	Open	Normal operation.	
R316	Open	Normal operation.	
R317	Open	Normal operation.	
R318	Open	Normal operation.	
R319	Open	Normal operation.	
R320	Open	Normal operation.	
R324	Open	Normal operation.	
R325	Open	Normal operation.	
R326	Open	Normal operation.	
R327	Open	No Hazard.	
R401	Open	Normal operation.	
R402	Open	Normal operation.	
R403	Open	Normal operation.	
R501	Open	No Hazard.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R502	Open	No Hazard.	
R503	Open	No Hazard.	
R504	Open	No Hazard.	
R505	Open	No Hazard.	
R506	Open	No Hazard.	
R507	Open	Normal operation.	
R508	Open	Normal operation.	
R509	Open	Normal operation.	
R510	Open	No Hazard.	
R511	Open	No Hazard.	
R512	Open	Output voltage increased. No hazard.	
R513	Open	Output voltage increased. No hazard.	
R514	Open	Output voltage increased. No hazard.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C11	Short		External Fuse opened, No hazard.	AVR1:0
C307	Short		External Fuse opened, No hazard.	AVR1:0
SCR11	Short	A-K	Normal operation.	
		A-G	Normal operation.	
		K-G	Normal operation.	
TR12	Open	D(DPG750)	External Fuse opened, No hazard.	AVR1:0
		D(DPG500)	No Hazard.	
		S	External Fuse opened, No hazard.	AVR1:0
		G	External Fuse opened, No hazard.	AVR1:0
	Short	D-S	External Fuse opened, No hazard.	AVR1:0
		S-G	No Hazard.	
G-D		External Fuse opened, No hazard.	AVR1:0	
TR13	Open	D(750only)	External Fuse opened, No hazard.	AVR1:0
		S(750only)	External Fuse opened, No hazard.	AVR1:0
		G(750only)	External Fuse opened, No hazard.	AVR1:0
	Short	D-S(750only)	External Fuse opened, No hazard.	AVR1:0
		S-G(750only)	No Hazard.	
		G-D(750only)	External Fuse opened, No hazard.	AVR1:0
TR15	Open	D	No Hazard.	
		S	No Hazard.	
		G	No Hazard.	
	Short	D-S	No Hazard.	
		S-G	No Hazard.	
		G-D	No Hazard.	