

ABNORMAL TEST RESULT

OF MODEL MAP1600T280

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)
C101	Open	Normal operation.	AVR1~4:*
	Short	F101orF102 opened, No hazard.	AVR1~4:0V
C102	Open	Normal operation.	AVR1~4:*
	Short	F101orF103 opened, No hazard.	AVR1~4:0V
C103	Open	Normal operation.	AVR1~4:*
	Short	F102orF103 opened, No hazard.	AVR1~4:0V
C104	Open	Normal operation.	AVR1~4:*
	Short	F101orF102 opened, No hazard.	AVR1~4:0V
C105	Open	Normal operation.	AVR1~4:*
	Short	F101orF103 opened, No hazard.	AVR1~4:0V
C106	Open	Normal operation.	AVR1~4:*
	Short	F102orF103 opened, No hazard.	AVR1~4:0V
C110	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
C111	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
C201	Open	Normal operation.	AVR1~4:*
	Short	F101orF102orF103 opened, No hazard.	AVR1~4:0V
C202	Open	Normal operation.	AVR1~4:*
	Short	F101orF102orF103 opened, No hazard.	AVR1~4:0V
C203	Open	Normal operation.	AVR1~4:*
	Short	F101orF102orF103 opened, No hazard.	AVR1~4:0V
C206	Open	Normal operation.	AVR1~4:*
	Short	No hazard.	AVR1~4:0V

F M E A

Component	Mode	Comment	Output Voltage (V)
C207	Open	Normal operation.	AVR1~4:*
	Short	ALM L→H.	AVR1~4:*
C208	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
C209	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
C210	Open	Normal operation.	AVR1~4:*
	Short	No hazard.	AVR1~4:0V
C211	Open	Normal operation.	AVR1~4:*
	Short	No hazard.	AVR1~4:0V
C212	Open	Normal operation.	AVR1~4:*
	Short	No hazard.	AVR1~4:0V
C213	Open	Normal operation.	AVR1~4:*
	Short	No hazard.	AVR1~4:0V
C401	Open	Normal operation.	AVR1~4:*
	Short	No hazard.	AVR1~4:0V
C402	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
C403	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
C404	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
C501	Open	No hazard.	AVR1~4:0V
	Short	No hazard.	AVR1~4:0V

F M E A

Component	Mode	Comment	Output Voltage (V)
C503	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
C504	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
D101	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
D102	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
D201	Open	No hazard.	AVR1~4:0V
	Short	No hazard.	AVR1~4:0V
D202	Open	Normal operation.	AVR1~4:*
	Short	No hazard.	AVR1~4:0V
D401	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
D501	Open	Normal operation.	AVR1~4:*
	Short	No hazard.	AVR1~4:0V
D502	Open	Normal operation.	AVR1~4:*
	Short	No hazard.	AVR1~4:0V
D503	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
D504	Open	Normal operation.	AVR1~4:*
	Short	Normal operation.	AVR1~4:*
F101	Open	No hazard.	AVR1~4:0V
	Short	Normal operation.	AVR1~4:*



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Component	Mode		Comment	Output Voltage (V)
F102	Open		No hazard.	AVR1~4:0V
	Short		Normal operation.	AVR1~4:*
F103	Open		No hazard.	AVR1~4:0V
	Short		Normal operation.	AVR1~4:*
F201	Open		No hazard.	AVR1~4:0V
	Short		Normal operation.	AVR1~4:*
IC201	Open	1	Normal operation.	AVR1~4:*
		2	No hazard.	AVR1~4:0V
		3	Normal operation.	AVR1~4:*
		4	No hazard.	AVR1~4:0V
		5	Normal operation.	AVR1~4:*
		6	Normal operation.	AVR1~4:*
		7	Normal operation.	AVR1~4:*
		8	Normal operation.	AVR1~4:*
	Short	1-2	Normal operation.	AVR1~4:*
		2-3	Normal operation.	AVR1~4:*
		3-4	Normal operation.	AVR1~4:*
		4-5	No hazard.	AVR1~4:0V
		5-6	Normal operation.	AVR1~4:*
		6-7	Normal operation.	AVR1~4:*
		7-8	Normal operation.	AVR1~4:*
L101	Open	L1	No hazard.	AVR1~4:0V
		L2	No hazard.	AVR1~4:0V
		L3	No hazard.	AVR1~4:0V

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Component	Mode		Comment	Output Voltage (V)
L101	Short	L1	Normal operation.	AVR1~4:*
		L2	Normal operation.	AVR1~4:*
		L3	Normal operation.	AVR1~4:*
		L1-L2	No hazard.	AVR1~4:0V
		L2-L3	No hazard.	AVR1~4:0V
		L3-L1	No hazard.	AVR1~4:0V
L202	Open		No hazard.	AVR1~4:0V
	Short		Normal operation.	AVR1~4:*
	Open	L1	No hazard.	AVR1~4:0V
		L2	No hazard.	AVR1~4:0V
	Short	L1	Normal operation.	AVR1~4:*
		L2	Normal operation.	AVR1~4:*
		L1-L2	F101orF102orF103 opened, No hazard.	AVR1~4:0V
PC101	Open	LED. A, K	Normal operation.	AVR1~4:*
		SCR. K	Normal operation.	AVR1~4:*
		SCR. A	Normal operation.	AVR1~4:*
		SCR. G	Normal operation.	AVR1~4:*
	Short	LED. A-K	Normal operation.	AVR1~4:*
		SCR. A-K	Normal operation.	AVR1~4:*
		SCR. K-G	Normal operation.	AVR1~4:*
		SCR. G-A	Normal operation.	AVR1~4:*
PC201	Open	LED. A, K	Normal operation.	AVR1~4:*
		TR. C, E	Normal operation.	AVR1~4:*
	Short	LED. A-K	ALM L→H.	AVR1~4:*

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Component	Mode		Comment	Output Voltage (V)
PC201	Short	TR. C-E	ALM L→H.	AVR1~4:*
PC401	Open	LED. A, K	No hazard.	AVR1~4:0V
		TR. C, E	No hazard.	AVR1~4:0V
	Short	LED. A-K	No hazard.	AVR1~4:0V
		TR. C-E	No hazard.	AVR1~4:0V
PC501	Open	LED. A, K	ALM L→H.	AVR1~4:*
		TR. C, E	ALM L→H.	AVR1~4:*
	Short	LED. A-K	ALM L→H.	AVR1~4:*
		TR. C-E	Normal operation.	AVR1~4:*
SCR101	Open	A	No hazard.	AVR1~4:0V
		K	No hazard.	AVR1~4:0V
		G	Normal operation.	AVR1~4:*
	Short	A-K	Normal operation.	AVR1~4:*
		K-G	Normal operation.	AVR1~4:*
		G-A	Normal operation.	AVR1~4:*
SS101	Open		No hazard.	AVR1~4:0V
	Short		F101orF102orF103 opened, No hazard.	AVR1~4:0V
SS102	Open		No hazard.	AVR1~4:0V
	Short		F101orF102orF103 opened, No hazard.	AVR1~4:0V
T401	Open	1	Normal operation.	AVR1~4:*
		2	Normal operation.	AVR1~4:*
		3	Normal operation.	AVR1~4:*
		4	Normal operation.	AVR1~4:*
		5	No hazard.	AVR1~4:0V

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Component	Mode		Comment	Output Voltage (V)
T401	Open	6	No hazard.	AVR1~4:0V
		7	No hazard.	AVR1~4:0V
		8	No hazard.	AVR1~4:0V
		9	No hazard.	AVR1~4:0V
	Short	1-2	Normal operation.	AVR1~4:*
		2-3	No hazard.	AVR1~4:0V
		3-4	Normal operation.	AVR1~4:*
		5-6	No hazard.	AVR1~4:0V
		6-7	No hazard.	AVR1~4:0V
		7-8	No hazard.	AVR1~4:0V
		8-9	No hazard.	AVR1~4:0V
		THSW201	Open	
Short			Normal operation.	AVR1~4:*
TR201	Open	C	ALM L→H.	AVR1~4:*
		E	ALM L→H.	AVR1~4:*
		B	ALM L→H.	AVR1~4:*
	Short	C-E	Normal operation.	AVR1~4:*
		E-B	ALM L→H.	AVR1~4:*
		B-C	Normal operation.	AVR1~4:*
TR202	Open	C	Normal operation.	AVR1~4:*
		E	Normal operation.	AVR1~4:*
		B	Normal operation.	AVR1~4:*
	Short	C-E	ALM L→H.	AVR1~4:*
		E-B	Normal operation.	AVR1~4:*

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Component	Mode		Comment	Output Voltage (V)
TR202	Short	B-C	ALM L→H.	AVR1~4:*
TR203	Open	C	ALM L→H.	AVR1~4:*
		E	ALM L→H.	AVR1~4:*
		B	ALM L→H.	AVR1~4:*
	Short	C-E	Normal operation.	AVR1~4:*
		E-B	ALM L→H.	AVR1~4:*
		B-C	Normal operation.	AVR1~4:*
TR204	Open	C	Normal operation.	AVR1~4:*
		E	Normal operation.	AVR1~4:*
		B	Normal operation.	AVR1~4:*
	Short	C-E	ALM L→H.	AVR1~4:*
		E-B	Normal operation.	AVR1~4:*
		B-C	ALM L→H.	AVR1~4:*
TR205	Open	C	Normal operation.	AVR1~4:*
		E	Normal operation.	AVR1~4:*
		B	Normal operation.	AVR1~4:*
	Short	C-E	No hazard.	AVR1~4:0V
		E-B	Normal operation.	AVR1~4:*
		B-C	No hazard.	AVR1~4:0V
TR206	Open	C	Normal operation.	AVR1~4:*
		E	Normal operation.	AVR1~4:*
		B	Normal operation.	AVR1~4:*
	Short	C-E	No hazard.	AVR1~4:0V
		E-B	Normal operation.	AVR1~4:*

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Component	Mode		Comment	Output Voltage (V)
TR206	Short	B-C	No hazard.	AVR1~4:0V
TR207	Open	C	Normal operation.	AVR1~4:*
		E	Normal operation.	AVR1~4:*
		B	Normal operation.	AVR1~4:*
	Short	C-E	Normal operation.	AVR1~4:*
		E-B	Normal operation.	AVR1~4:*
		B-C	Normal operation.	AVR1~4:*
TR208	Open	C	No hazard.	AVR1~4:0V
		E	No hazard.	AVR1~4:0V
		B	No hazard.	AVR1~4:0V
	Short	C-E	Normal operation.	AVR1~4:*
		E-B	No hazard.	AVR1~4:0V
		B-C	Normal operation.	AVR1~4:*
TR401	Open	D	No hazard.	AVR1~4:0V
		S	No hazard.	AVR1~4:0V
		G	No hazard.	AVR1~4:0V
	Short	D-S	No hazard.	AVR1~4:*
		S-G	No hazard.	AVR1~4:*
		G-D	No hazard.	AVR1~4:*
TR402	Open	C	No hazard.	AVR1~4:0V
		E	No hazard.	AVR1~4:0V
		B	No hazard.	AVR1~4:0V
	Short	C-E	No hazard.	AVR1~4:0V
		E-B	No hazard.	AVR1~4:0V

F M E A

Component	Mode		Comment	Output Voltage (V)
TR402	Short	B-C	No hazard.	AVR1~4:0V
TR501	Open	C	ALM L→H.	AVR1~4:*
		E	ALM L→H.	AVR1~4:*
		B	ALM L→H.	AVR1~4:*
	Short	C-E	Normal operation.	AVR1~4:*
		E-B	ALM L→H.	AVR1~4:*
		B-C	Normal operation.	AVR1~4:*
TR502	Open	C	Normal operation.	AVR1~4:*
		E	Normal operation.	AVR1~4:*
		B	Normal operation.	AVR1~4:*
	Short	C-E	ALM L→H.	AVR1~4:*
		E-B	Normal operation.	AVR1~4:*
		B-C	ALM L→H.	AVR1~4:*
ZD201	Open		Normal operation.	AVR1~4:*
	Short		No hazard.	AVR1~4:0V
ZD202	Open		ALM L→H.	AVR1~4:*
	Short		Normal operation.	AVR1~4:*
ZD203	Open		ALM L→H.	AVR1~4:*
	Short		Normal operation.	AVR1~4:*
ZD204	Open		Normal operation.	AVR1~4:*
	Short		No hazard.	AVR1~4:0V
ZD401	Open		Normal operation.	AVR1~4:*
	Short		No hazard.	AVR1~4:0V
ZD402	Open		Normal operation.	AVR1~4:*

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Component	Mode	Comment	Output Voltage (V)
ZD402	Short	Normal operation.	AVR1~4:*
ZD403	Open	Normal operation.	AVR1~4:*
	Short	No hazard.	AVR1~4:0V
ZD501	Open	No hazard.	AVR1~4:0V
	Short	No hazard.	AVR1~4:0V
R101	Open	Normal operation.	AVR1~4:*
R102	Open	Normal operation.	AVR1~4:*
R103	Open	Normal operation.	AVR1~4:*
R104	Open	ALM L→H.	AVR1~4:*
R105	Open	ALM L→H.	AVR1~4:*
R106	Open	Normal operation.	AVR1~4:*
R107	Open	Normal operation.	AVR1~4:*
R108	Open	Normal operation.	AVR1~4:*
R109	Open	Normal operation.	AVR1~4:*
R110	Open	Normal operation.	AVR1~4:*
R111	Open	Normal operation.	AVR1~4:*
R201	Open	No hazard.	AVR1~4:0V
R202	Open	Normal operation.	AVR1~4:*
R203	Open	Normal operation.	AVR1~4:*
R204	Open	Normal operation.	AVR1~4:*
R205	Open	Normal operation.	AVR1~4:*
R206	Open	Normal operation.	AVR1~4:*
R207	Open	ALM L→H.	AVR1~4:*
R208	Open	ALM L→H.	AVR1~4:*

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Component	Mode	Comment	Output Voltage (V)
R209	Open	ALM L→H.	AVR1~4:*
R210	Open	Normal operation.	AVR1~4:*
R211	Open	Normal operation.	AVR1~4:*
R212	Open	Normal operation.	AVR1~4:*
R213	Open	Normal operation.	AVR1~4:*
R214	Open	Normal operation.	AVR1~4:*
R215	Open	Normal operation.	AVR1~4:*
R216	Open	Normal operation.	AVR1~4:*
R217	Open	Normal operation.	AVR1~4:*
R218	Open	Normal operation.	AVR1~4:*
R219	Open	No hazard.	AVR1~4:0V
R220	Open	No hazard.	AVR1~4:0V
R221	Open	No hazard.	AVR1~4:0V
R222	Open	No hazard.	AVR1~4:0V
R223	Open	No hazard.	AVR1~4:0V
R224	Open	Normal operation.	AVR1~4:*
R225	Open	No hazard.	AVR1~4:0V
R226	Open	No hazard.	AVR1~4:0V
R227	Open	Normal operation.	AVR1~4:*
R228	Open	Normal operation.	AVR1~4:*
R229	Open	No hazard.	AVR1~4:0V
R230	Open	No hazard.	AVR1~4:0V
R231	Open	Normal operation.	AVR1~4:*
R232	Open	Normal operation.	AVR1~4:*

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Component	Mode	Comment	Output Voltage (V)
R233	Open	Normal operation.	AVR1~4:*
R234	Open	Normal operation.	AVR1~4:*
R235	Open	Normal operation.	AVR1~4:*
R236	Open	Normal operation.	AVR1~4:*
R237	Open	No hazard.	AVR1~4:0V
R238	Open	No hazard.	AVR1~4:0V
R239	Open	No hazard.	AVR1~4:0V
R240	Open	No hazard.	AVR1~4:0V
R241	Open	No hazard.	AVR1~4:0V
R401	Open	Normal operation.	AVR1~4:*
R402	Open	Normal operation.	AVR1~4:*
R403	Open	Normal operation.	AVR1~4:*
R404	Open	Normal operation.	AVR1~4:*
R405	Open	Normal operation.	AVR1~4:*
R406	Open	Normal operation.	AVR1~4:*
R407	Open	Normal operation.	AVR1~4:*
R408	Open	Normal operation.	AVR1~4:*
R409	Open	Normal operation.	AVR1~4:*
R410	Open	Normal operation.	AVR1~4:*
R411	Open	Normal operation.	AVR1~4:*
R412	Open	Normal operation.	AVR1~4:*
R413	Open	No hazard.	AVR1~4:0V
R414	Open	No hazard.	AVR1~4:0V
R415	Open	Normal operation.	AVR1~4:*

F M E A

Component	Mode		Comment	Output Voltage (V)
R501	Open		Normal operation.	AVR1~4:*
R502	Open		No hazard.	AVR1~4:0V
R503	Open		ALM L→H.	AVR1~4:*
R504	Open		ALM L→H.	AVR1~4:*
R505	Open		ALM L→H.	AVR1~4:*
R506	Open		ALM L→H.	AVR1~4:*
R507	Open		Normal operation.	AVR1~4:*
R508	Open		Normal operation.	AVR1~4:*
R509	Open		Normal operation.	AVR1~4:*
R510	Open		Normal operation.	AVR1~4:*
R511	Open		Normal operation.	AVR1~4:*
R512	Open		Normal operation.	AVR1~4:*
SK101	Open		Normal operation.	AVR1~4:*
	Short		F101orF102 opened, No hazard.	AVR1~4:0V
SK102	Open		Normal operation.	AVR1~4:*
	Short		F101orF103 opened, No hazard.	AVR1~4:0V
SK103	Open		Normal operation.	AVR1~4:*
	Short		F102orF103 opened, No hazard.	AVR1~4:0V
SK104	Open		Normal operation.	AVR1~4:*
	Short		F101orF102orF103 opened, No hazard.	AVR1~4:0V
CN201	Open	1	No hazard.	AVR1:0V AVR2~4:*
		2	No hazard.	AVR1:0V AVR2~4:*
		4	No hazard.	AVR1:0V AVR2~4:*
	Short	1-2	F101orF102orF103 opened, No hazard.	AVR1~4:0V

F M E A

Component	Mode		Comment	Output Voltage (V)
CN202	Open	1	No hazard.	AVR2:0V AVR1,3~4:*
		2	No hazard.	AVR2:0V AVR1,3~4:*
		4	No hazard.	AVR2:0V AVR1,3~4:*
	Short	1-2	F101orF102orF103 opened, No hazard.	AVR1~4:0V
CN203	Open	1	No hazard.	AVR3:0V AVR1,2,4:*
		2	No hazard.	AVR3:0V AVR1,2,4:*
		4	No hazard.	AVR3:0V AVR1,2,4:*
	Short	1-2	F101orF102orF103 opened, No hazard.	AVR1~4:0V
CN204	Open	1	No hazard.	AVR4:0V AVR1~3:*
		2	No hazard.	AVR4:0V AVR1~3:*
		4	No hazard.	AVR4:0V AVR1~3:*
	Short	1-2	F101orF102orF103 opened, No hazard.	AVR1~4:0V
CN501	Open	1	Normal operation.	AVR1~4:*
		2	ALM L→H.	AVR1~4:*
		3	Normal operation.	AVR1~4:*
	Short	1-2	Normal operation.	AVR1~4:*
		2-3	Normal operation.	AVR1~4:*
CN502	Open	1	Normal operation.	AVR1~4:*
		2	ALM L→H.	AVR1~4:*
		3	Normal operation.	AVR1~4:*
	Short	1-2	Normal operation.	AVR1~4:*
		2-3	Normal operation.	AVR1~4:*
CN503	Open	1	ALM L→H.	AVR1~4:*
		2	ALM L→H.	AVR1~4:*

F M E A

Component	Mode		Comment	Output Voltage (V)
CN503	Short	1-2	Normal operation.	AVR1~4:*
OutputModule (MAS400B)				
C701	Open		Normal operation.	*
	Short		No hazard.	0V
C702	Open		Normal operation.	*
	Short		No hazard.	0V
C801	Open		Normal operation.	*
	Short		No hazard.	0V
C802	Open		Normal operation.	*
	Short		No hazard.	0V
C803	Open		Normal operation.	*
	Short		No hazard.	0V
C804	Open		Normal operation.	*
	Short		No hazard.	0V
C807	Open		Normal operation.	*
	Short		No hazard.	0V
C811	Open		Normal operation.	*
	Short		Normal operation.	*
C812	Open		Normal operation.	*
	Short		No hazard.	0V
C813	Open		Normal operation.	*
	Short		No hazard.	0V
D802	Open		Normal operation.	*
	Short		Normal operation.	*

F M E A

Component	Mode		Comment	Output Voltage (V)
IC801	Open	A	Normal operation.	*
		K	Normal operation.	*
		R	Normal operation.	*
	Short	A-K	No hazard.	0V
		K-R	No hazard.	0V
		R-A	No hazard.	0V
TR701	Open	C	No hazard.	0V
		E	No hazard.	0V
		B	No hazard.	0V
	Short	C-E	Normal operation.	*
		E-B	No hazard.	0V
		B-C	No hazard.	0V
VR801	Open		No hazard.	0V
	Short		Normal operation.	*
R701	Open		No hazard.	0V
R702	Open		No hazard.	0V
R804	Open		Normal operation.	*
R805	Open		Normal operation.	*
R806	Open		Normal operation.	*
R807	Open		Normal operation.	*
R810	Open		Normal operation.	*
R812	Open		Normal operation.	*
R815	Open		No hazard.	0V
R816	Open		No hazard.	0V

F M E A

Component	Mode	Comment	Output Voltage (V)
R817	Open	Normal operation.	*
R819	Open	Normal operation.	*
R820	Open	Normal operation.	*
R821	Open	No hazard.	0V

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C201	Short		F101, F103 opened, No hazard.	AVR1~4:0V
CN204	Short	4-2	F101, F102 opened, No hazard.	AVR1~4:0V
TR401	Open	S	No hazard.	AVR1~4:0V
	Short	D-S	No hazard.	AVR1~4:0V
		G-D	No hazard.	AVR1~4:0V