

ABNORMAL TEST RESULT

OF MODEL MGFW648□□

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/ 9 ~ 8/ 9)

(Abnormal Test Result: 9/ 9 ~ 9/ 9)

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 | No Hazard. | AVR1:0 AVR2:0 |
| C12 | Open | No Hazard. | AVR1:0 AVR2:0 |
| | Short | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| C13 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C21 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C22 | Open | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| | Short | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| C31 | Open | Normal operation. | |
| | Short | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| C32 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 AVR2:0 |
| C33 | Open | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| | Short | No Hazard. | AVR1:0 AVR2:0 |
| C34 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C41 | Open | Normal operation. | |
| | Short | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| C42 | Open | Normal operation. | |
| | Short | See 9 Page. | |
| C51 | Open | Normal operation. | |
| | Short | See 9 Page. | |



F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|---|----------------------------------|
| C52 | Open | Normal operation. | |
| | Short | See 9 Page. | |
| C53 | Open | Normal operation. | |
| | Short | See 9 Page. | |
| C54 | Open | Normal operation. | |
| | Short | See 9 Page. | |
| C71 | Open | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| | Short | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| C72 | Open | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| | Short | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| C101 | Open | Normal operation. | |
| | Short | See 9 Page. | |
| C102 | Open | Normal operation. | |
| | Short | See 9 Page. | |
| C121 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C122 | Open | Normal operation. | |
| | Short | No Hazard. | |
| C201 | Open | Normal operation. | |
| | Short | See 9 Page. | |
| C202 | Open | Normal operation. | |
| | Short | See 9 Page. | |
| C203 | Open | Normal operation. | |
| | Short | See 9 Page. | |



F M E A

| Component | Mode | Comment | Output Voltage (V) | |
|-----------|-------|----------------------------------|----------------------------------|---------------|
| C204 | Open | Normal operation. | | |
| | Short | See 9 Page. | | |
| C211 | Open | Normal operation. | | |
| | Short | External Fuse opened, No hazard. | AVR1:0 AVR2:0 | |
| D11 | Open | Normal operation. | | |
| | Short | Normal operation. | | |
| D21 | Open | Normal operation. | | |
| | Short | External Fuse opened, No hazard. | AVR1:0 AVR2:0 | |
| D31 | Open | Normal operation. | | |
| | Short | External Fuse opened, No hazard. | AVR1:0 AVR2:0 | |
| D201 | Open | No Hazard. | AVR1:0 AVR2:0 | |
| | Short | External Fuse opened, No hazard. | AVR1:0 AVR2:0 | |
| D202 | Open | No Hazard. | AVR1:0 AVR2:0 | |
| | Short | External Fuse opened, No hazard. | AVR1:0 AVR2:0 | |
| IC11 | Open | 1 | No Hazard. | AVR1:0 AVR2:0 |
| | | 2 | See 9 Page. | |
| | | 3 | No Hazard. | AVR1:0 AVR2:0 |
| | | 4 | Normal operation. | |
| | | 5 | No Hazard. | AVR1:0 AVR2:0 |
| | | 6 | No Hazard. | AVR1:0 AVR2:0 |
| | | 7 | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| | | 8 | No Hazard. | AVR1:0 AVR2:0 |
| | Short | 1-2 | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| | | 2-3 | Normal operation. | |



F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-------------------|---|----------------------------------|
| IC11 | Short | 3-4 | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| | | 5-6 | No Hazard. | AVR1:0 AVR2:0 |
| | | 6-7 | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| | | 7-8 | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| IC12 | Open | 1 | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| | | 2 | Normal operation. | |
| | | 3 | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| | | 4 | Normal operation. | |
| | | 5 | See 9 Page. | |
| | | 6 | No Hazard. | AVR1:0 AVR2:0 |
| | Short | 1-2 | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| | | 2-3 | No Hazard. | AVR1:0 AVR2:0 |
| | | 4-5 | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| | | 5-6 | No Hazard. | AVR1:0 AVR2:0 |
| IC71 | Open | 1 | No Hazard. | AVR1:0 AVR2:0 |
| | | 3 | No Hazard. | AVR1:0 AVR2:0 |
| | | 6 | No Hazard. | AVR1:0 AVR2:0 |
| L11 | Open | No Hazard. | AVR1:0 AVR2:0 | |
| | Short | Normal operation. | | |
| L51 | Open | No Hazard. | AVR1:0 AVR2:0 | |
| | Short | Normal operation. | | |
| L52 | Open | No Hazard. | AVR1:0 AVR2:0 | |
| | Short | Normal operation. | | |
| PC11 | Open | A, K | No Hazard. | AVR1:0 AVR2:0 |



F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|------|----------------------------------|--------------------|
| PC11 | Open | C, E | No Hazard. | AVR1:0 AVR2:0 |
| | Short | A-K | No Hazard. | AVR1:0 AVR2:0 |
| | | C-E | No Hazard. | AVR1:0 AVR2:0 |
| PTH31 | Open | | No Hazard. | AVR1:0 AVR2:0 |
| | Short | | Normal operation. | |
| R11 | Open | | No Hazard. | AVR1:0 AVR2:0 |
| R12 | Open | | No Hazard. | AVR1:0 AVR2:0 |
| R13 | Open | | Normal operation. | |
| R14 | Open | | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| R15 | Open | | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| R16 | Open | | Normal operation. | |
| R17 | Open | | No Hazard. | AVR1:0 AVR2:0 |
| R18 | Open | | Normal operation. | |
| R19 | Open | | Normal operation. | |
| R21 | Open | | Normal operation. | |
| R22 | Open | | Normal operation. | |
| R24 | Open | | No Hazard. | AVR1:0 AVR2:0 |
| R31 | Open | | No Hazard. | AVR1:0 AVR2:0 |
| R33 | Open | | Normal operation. | |
| R41 | Open | | Normal operation. | |
| R42 | Open | | No Hazard. | AVR1:0 AVR2:0 |
| R43 | Open | | Normal operation. | |
| R71 | Open | | No Hazard. | AVR1:0 AVR2:0 |
| R72 | Open | | No Hazard. | AVR1:0 AVR2:0 |



F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|---|----------------------------------|
| R73 | Open | | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| R74 | Open | | No Hazard. | AVR1:0 AVR2:0 |
| R75 | Open | | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| R76 | Open | | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| R77 | Open | | Normal operation. | |
| R111 | Open | | No Hazard. | |
| R121 | Open | | No Hazard. | |
| R122 | Open | | Normal operation. | |
| SS41 | Open | 1 | No Hazard. | AVR1:0 AVR2:0 |
| | | 2 | Normal operation. | |
| | | 3 | No Hazard. | AVR1:0 AVR2:0 |
| | Short | 1-2 | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| | | 1-3 | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| | | 2-3 | Normal operation. | |
| TR11 | Open | D | See 9 Page. | |
| | | S | See 9 Page. | |
| | | G | See 9 Page. | |
| | Short | D-S | See 9 Page. | |
| | | S-G | See 9 Page. | |
| | | G-D | See 9 Page. | |
| TR12 | Open | 1 | Normal operation. | |
| | | 2 | Normal operation. | |
| | | 3 | Normal operation. | |
| | | 4 | Normal operation. | |



F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|---|----------------------------------|
| TR12 | Open | 5 | Normal operation. | |
| | | 6 | Normal operation. | |
| | Short | 1-2 | No Hazard. | AVR1:0 AVR2:0 |
| | | 2-3 | Normal operation. | |
| | | 4-5 | Normal operation. | |
| | | 5-6 | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| TR13 | Open | C | Normal operation. | |
| | | E | Normal operation. | |
| | | B | Normal operation. | |
| | Short | C-E | No Hazard. | AVR1:0 AVR2:0 |
| | | E-B | Normal operation. | |
| | | B-C | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| TR101 | Open | D | Normal operation. | |
| | | S | Normal operation. | |
| | | G | No Hazard. | |
| | Short | D-S | Normal operation. | |
| | | S-G | Normal operation. | |
| | | G-D | No Hazard. | |
| ZD11 | Open | | Normal operation. | |
| | Short | | Output voltage decreased. No hazard. | AVR1:decreased AVR2:decreased |
| ZD21 | Open | | No Hazard. | AVR1:0 AVR2:0 |
| | Short | | Normal operation. | |



ABNORMAL TEST RESULT

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|-------------------------------------|--------------------|
| C42 | Short | | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| C51 | Short | | No Hazard. | AVR1:0 AVR2:0 |
| C52 | Short | | No Hazard. | AVR1:0 AVR2:0 |
| C53 | Short | | No Hazard. | AVR1:0 AVR2:0 |
| C54 | Short | | No Hazard. | AVR1:0 AVR2:0 |
| C101 | Short | | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| C102 | Short | | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| C201 | Short | | No Hazard. | AVR1:0 AVR2:0 |
| C202 | Short | | No Hazard. | AVR1:0 AVR2:0 |
| C203 | Short | | No Hazard. | AVR1:0 AVR2:0 |
| C204 | Short | | No Hazard. | AVR1:0 AVR2:0 |
| IC11 | Open | 2 | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| IC12 | Open | 5 | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| TR11 | Open | D | No Hazard. | AVR1:0 AVR2:0 |
| | | S | No Hazard. | AVR1:0 AVR2:0 |
| | | G | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| | Short | D-S | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |
| | | S-G | No Hazard. | AVR1:0 AVR2:0 |
| | | G-D | External Fuse opened, No hazard. | AVR1:0 AVR2:0 |