



ELECTRONICS



SPECIFICATION of MGT- 1620

1. MODEL NO. AM-1651200A

2. CONSTRUCTIONS:

- 2.1 SURFACE: DAMAGE, RUSTING, FOAM, NOT PERMITTED.
- 2.2 SIZE: SHOW AS DRAWING.
- 2.3 AC BLADE PULL TEST: 5 KG FOR 60 SECONDS.
AC BLADE SHALL NOT BE PULLED OUT FROM THE CASE.
- 2.4 WEIGHT PER UNIT: 435 g APPROX.

3. CHARACTERISTICS:

- 3.1 PRIMARY RATED VOLTAGE & LINE FREQUENCY: 120 V 60 Hz
- 3.2 SECONDARY RATED VOLTAGE:

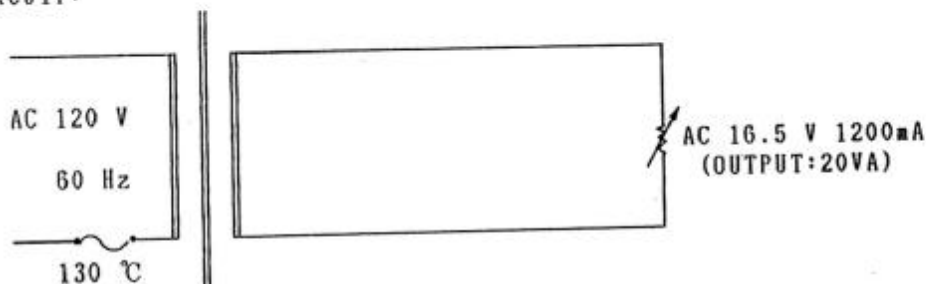
RATED VOLTAGE	RATED CURRENT	TOLERANCE	NO LOAD VOLTAGE
AC 16.5 V	1200mA	± 5%	AC 19.7 V (MAX)

- 3.3 RIPPLE VOLTAGE: mV (R.M.S.) AT V Hz LOAD mA MAX.
- 3.4 RATED LOAD AT RATED CURRENT (IP): INPUT PRIMARY 120 V 60 Hz 250 mA MAX.
- 3.5 EXCITING CURRENT (IO): INPUT: 120 V 60 Hz 70 mA MAX.
- 3.6 HI-POT TEST: SHALL WITHSTAND WITHOUT BREAKDOWN: (1) 1.24 KV 60 Hz FOR ONE MINUTE BETWEEN PRIMARY TO SECONDARY. (2) 0.5 KV 60 Hz FOR ONE MINUTE BETWEEN SECONDARY TO CORE.
AT AN ALTERNATIVE, POTENTIALS 20% HIGHER MAY BE APPLIED FOR ONE SECOND.
CUT-OFF CURRENT: 1 mA MAX.
- 3.7 INSULATION TEST: 500 VDC 100 MΩ MIN. BETWEEN PRIMARY AND SECONDARY.
- 3.8 RATED LOAD WATTS LOSS (W): INPUT PRIMARY 120 V 60 Hz 27 W MAX.
- 3.9 NO LOAD WATTS (W): INPUT PRIMARY 120 V 60 Hz 2.5 W MAX.
- 3.10 TEMPERATURE RISE: 75 °C MAX. WITH LOAD SHOWN ON THE CIRCUIT BY RESISTANCE METHOD AT AMBIENT TEMPERATURE 25 °C .
TEMPERATURE OF CASE SURFACE 55 °C MAX.

4. APPROVAL CONDITION:

SAFETY STANDARD: UL 1310
 SAFETY MARKING : UL

5. CIRCUIT:





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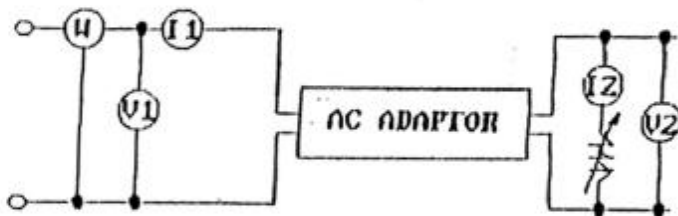


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- 6. HIGH TEMPERATURE & HIGH HUMIDITY OPERATION TEST
8 HOURS IN 35 °C AMBIENT TEMPERATURE & 90% HUMIDITY THEN RATED OUTPUT TEST IS OK.
- 7. LAW TEMPERATURE & OPERATION TEST
4 HOURS IN 0 °C AMBIENT TEMPERATURE THEN RATED OUTPUT TEST IS OK.
- 8. DROP TEST:
DROP TEST FROM WOODEN BOARD (THICKNESS 30 mm) 90CM HEIGH, 3 TIMES. THEN CHECK ITEMS AS FOLLOWING:
 - 1. OUTPUT VOLTAGE SHALL BE AS ITEM 3.2
 - 2. HI-POT SHALL BE AS ITEM 3.6
 - 3. INSULATION RESISTANCE SHALL OVER 20 MEGA OHM.
 - 4. TRANSFORMER COULD BE MOVED INSIDE HOUSING, BUT HOUSING OPENED OR BROKEN COULD NOT BE ACCEPTABLE.
- 9. ABNORMAL TEST:
INPUT RATED VOLTAGE AND RATED INPUT FREQUENCY, THEN MAKE SECONDARY CIRCUIT SHORT.
THE UNIT SHOULD NOT BE FIRED, SMOKE AND EXPLOSION. TEMPERATURE OF WINDING SHALL NOT EXCESS 150 °C.
THIS TEST SHOULD BE FINISHED UNTIL UNIT WITHOUT OUTPUT CURRENT OR THERMAL FUSE IN THE PRIMARY WAS OPENED.
- 10. TEMPERATURE RANGE:
 - 10-1 NORMAL OPERATING TEMP. AT 0°C --- +35°C
 - 10-2 STORAGE TEMP. AT -20°C --- +70°C
 - 10-3 NORMAL OPERATING HUMIDITY : 30% --- 85% R.H.
- 11. INSPECT OF PRODUCTS:

11-1 INPUT VOLTAGE	11-5 DIMINSION OF SURFACE
11-2 OUTPUT VOLTAGE	11-6 DROP TEST
11-3 EXCITING CURRENT	
11-4 HI-POT TEST	

12. MEASUREMENT CIRCUIT



- W1 : WATTMETER CLASS 0.
- V1 : AC VOLTMETER CLASS 0.
- I1 : AC AMMETER CLASS 0.
- I2 : AC AMMETER CLASS 0.
- V2 : AC VOLTMETER CLASS 0.

STANDARD CONDITION: AMBIENT TEMPERATURE: 20 °C - 30 °C
RELATIVE HUMIDITY : 25% - 80%



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MATERIAL LIST

NO.	PART LIST	SPEC	MANUFACTURER
1.	BOBBIN	NYLON (ZYTEL#101)	DUPONT DE NEMOURS&CO.,LTD.
2.	OVER THE PRIMARY	0.025MM THICKNESS POLYESTER TAPE 2 TURNS 0.25MM THICKNESS PRESS BOARD 1 TURN	FOUR PILLARS ENTERPRISE CO.,LTD. ABEKAWA KOGYO CO.,LTD.
3.	OVER ALL THE PRIMARY	0.025MM THICKNESS POLYESTER TAPE 2 TURNS 0.25MM THICKNESS PRESS BOARD 1 SHEET	FOUR PILLARS ENTERPRISE CO.,LTD. ABEKAWA KOGYO CO.,LTD.
4.	LEAD WIRE FIXED (P&S)	0.025MM THICKNESS POLYESTER TAPE 2 TURNS 0.50MM THICKNESS PRESS BOARD 1 SHEET	FOUR PILLARS ENTERPRISE CO.,LTD. ABEKAWA KOGYO CO.,LTD.
5.	OVER THE SECONDARY	0.025MM THICKNESS POLYESTER TAPE 2 TURNS 0.25MM THICKNESS PRESS BOARD 1 TURN	FOUR PILLARS ENTERPRISE CO.,LTD. ABEKAWA KOGYO CO.,LTD.
6.	OVER ALL THE SECONDARY	0.025MM THICKNESS POLYESTER TAPE 2 TURNS 0.25MM THICKNESS PRESS BOARD 1 SHEET	FOUR PILLARS ENTERPRISE CO.,LTD. ABEKAWA KOGYO CO.,LTD.
7.	CROSS OVER	0.180MM THICKNESS ACETATE TAPE 2 SHEETS	FOUR PILLARS ENTERPRISE CO.,LTD.
8.	LEAD WIRE (P.R.)	UL 1015 AWG#22 105 °C 600V	TAI-I WIRE INDUSTRIAL CO., LTD. PACIFIC ELECTRIC WIRE & CABLE CO.,LTD.
9.	LEAD WIRE (SEC.)	UL 1007 AWG#22 80 °C 300V	TAI-I WIRE INDUSTRIAL CO., LTD. PACIFIC ELECTRIC WIRE & CABLE CO.,LTD.
10.	FIXED SCREW	3.5mmX15mm WITH WASHER 8φ(O.D)	TON SHELL SCREW CO.,LTD. OTHERS
11.	WINDING	POLYURETHANE ENAMELED WIRE	TAI-I WIRE INDUSTRIAL CO., LTD. WALSIN LIHWA ELECTRIC WIRE & CABLE CO.,LTD. TA-YA WIRE & CABLE CO.,LTD.
12.	NAMEPLATE	INJECTION WITH CASE	
13.	LAMINATION	SILICON STEEL	NEW NIPPON SEITETSU CO.,LTD KAWASAKI CORE CO.,LTD.
14.	OUTPUT SCREW	3.5mm x 6mm	TON SHELL SCREW CO.,LTD. OTHERS
15.	CASE	NORYL (SE-100J)	JENG SHONG ENTERPRISE CO.,LTD GE PLASTICS JAPAN LTD.



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16. AC BLADE

NICKEL PLATED COPPER

SHIN CHUNAN YUN CO.,LTD.

17. THERMAL FUSE

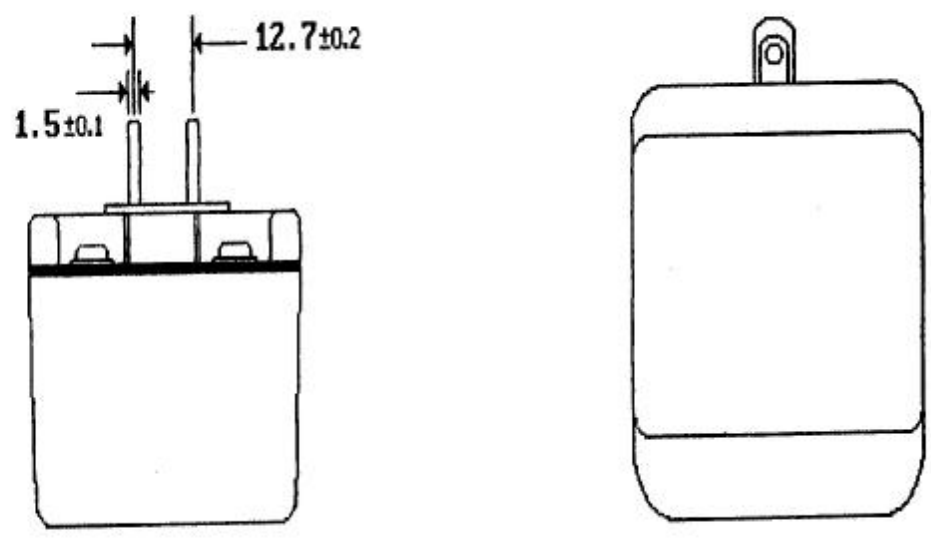
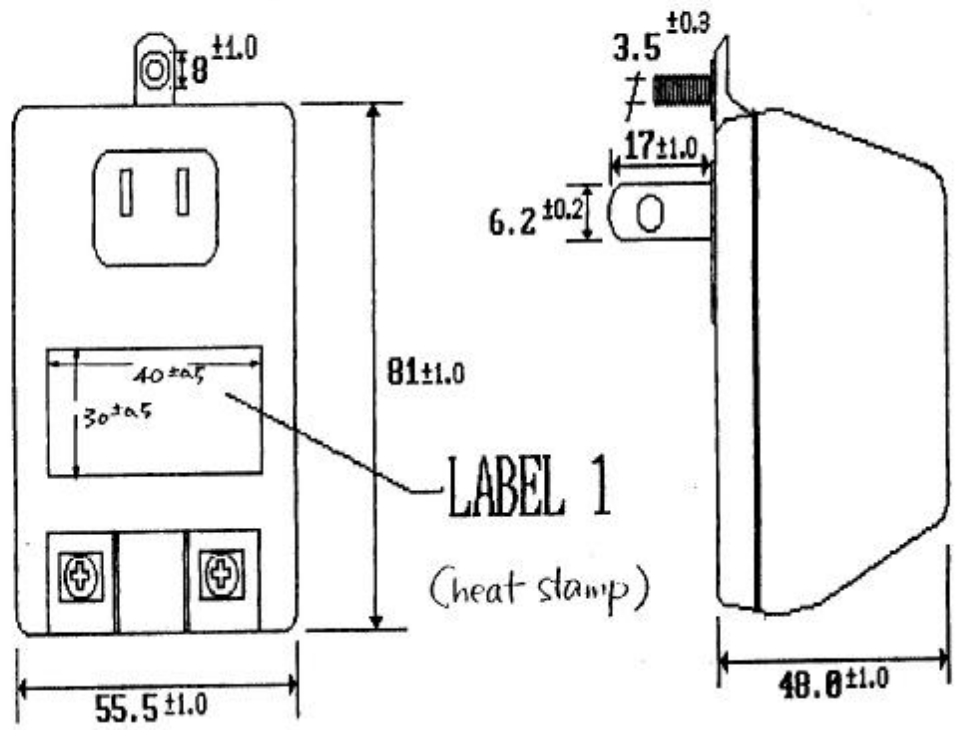
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H-33:130 °C

F130:130 °C

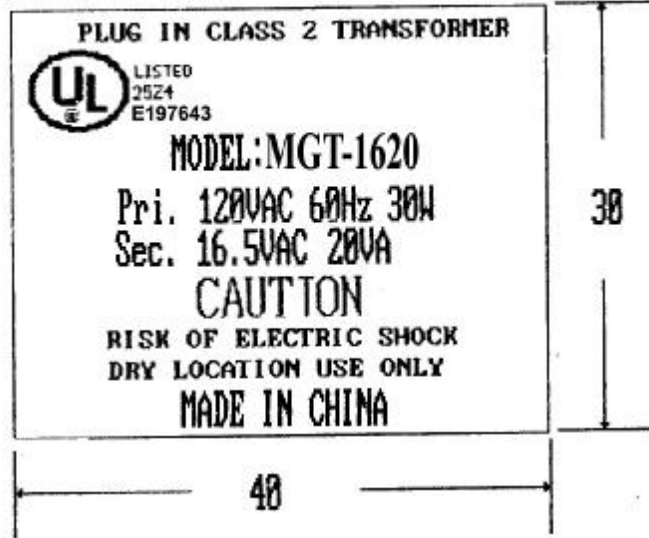
UCHIHASHI METAL INDUSTRIAL CO.
LTD.
JOINT FORCE METAL RESEARCH.
PANASONIC

圖號	20W, 25W CASE	使用機種	A	YDA-	製作廠商	A
			B		B	
			C		C	
			D		D	



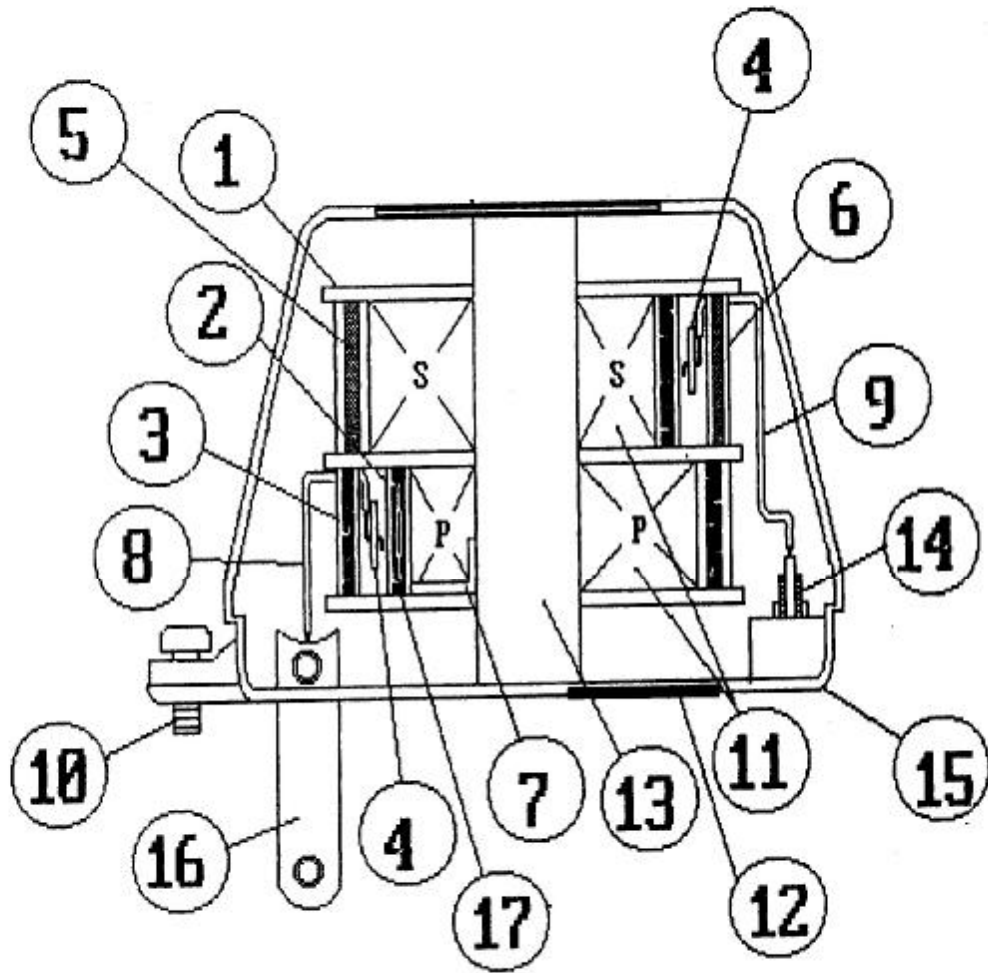
材質	電鍍	單位	m/m	比例	品名	REV. A
設計	承認					
<i>Shup.</i>	廣清彬					



圖 號		使用 機種	A	製 作 廠 商	A	
			B		B	
			C		C	
			D		D	



材 質	電 鏡	Heat Stamp	單 位	on/m	比 例	品 名	
設 計	承 認						

一 號	使用機種	A	製作廠商	A
		B		B
		C		C
		D		D



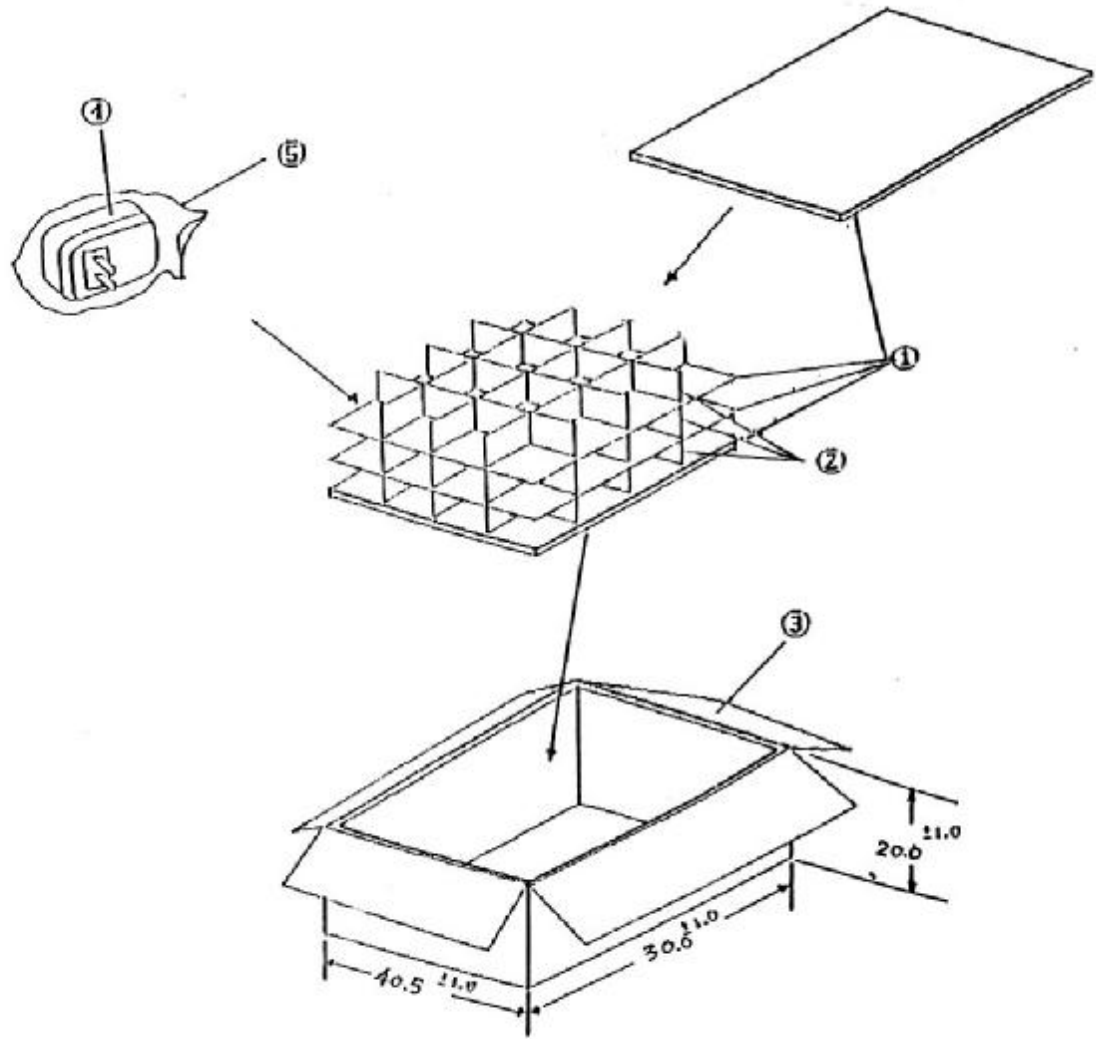
材 質	電 鏡	單 位	比 例	品 名	變 更 欄
設 計	承 認				
<i>Sof</i>					

A
B
C
D


A
B
C
D

packing: 48pcs/CTN

UNIT:cm



- 1.Division card board:3 layers wave card board x 4pcs
- 2.Isolating card board:5 layers wave card board x 3 set
- 3.Carton:5 layers wave card board
- 4.AC Adaptor
- 5.Plastic bag: 12cmx15cm

料號	電號	單位	比例	品名	變更欄
設計	承認				
Shel	康清				
					



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ELECTRICAL TEST DATA

CUSTOMER : MG

DATE SEP. 21. 1999

PART NO : AM-1651200A

DESIGNED NO. _____

I T E M	S P E C	S A M P L E									
		1	2	3	4	5	6	7	8	9	10
PRIMARY EXCITING CURRENT INPUT 120 V-AC 60 Hz	70 MA MAX	>3	>1	>P	>8						
PRIMARY LOAD CURRENT INPUT 120 V-AC 60 Hz		197	199	199	201						
SECONDARY #1 NO LOAD AC VOLTAGE		18.88	18.88	18.85	18.84						
SECONDARY #1 LOAD AC VOLTAGE 1200mA	16.5V ± 5%	16.54	16.53	16.51	16.51						
SECONDARY #2 NO LOAD VOLTAGE											
SECONDARY #2 LOAD VOLTAGE											
TEMP . RISE AFTER 4 HRS IN 25°C AMBIENT	25 °C MAX										
HI-POT TEST	PRI. TO SEC & CORE AC 220 V	OK	OK	OK	OK						
	SEC. TO SEC & CORE AC 500 V	OK	OK	OK	OK						

APPROVED BY [Signature]

CHECKED BY [Signature]

TEST BY [Signature]