

## SWT65 INSTRUCTION MANUAL

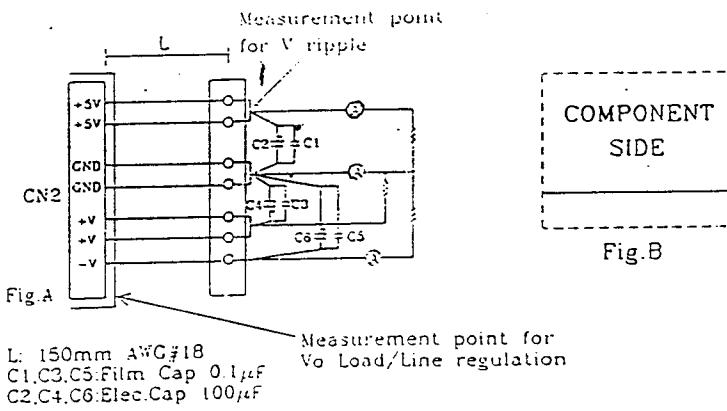
DWG.NO.CA703-04-01

## SPECIFICATION

ITEMS	MODEL	SWT65						REV
		522,5FF	CH1	CH2	CH3	CH1	CH2	
1. NOMINAL OUTPUT VOLTAGE	V	+5	+12	+15	-12	-15	+5	+12
2. MAX. OUTPUT CURRENT (*1)	A	6	2.5	0.5	6	2.5	0.5	
3. MIN. OUTPUT CURRENT	A	0.3	0	0	0.3	0	0	
4. PEAK OUTPUT CURRENT	A	-	-	-	-	-	-	
5. MAX. OUTPUT POWER (*1)	W		66			62.5		
6. EFFICIENCY (TYP) (*2)	%			72				
7. INPUT VOLTAGE RANGE (*3)	-				AC 85-132V, 170-265V (auto selectable)			
8. INPUT CURRENT (TYP) (*2)	A				1.71 (Vin=100VAC) / 0.86 (Vin=200VAC)			
9. INRUSH CURRENT (TYP)	A				30A@100VAC 30A@200VAC (cold start)			
10. OUTPUT VOLTAGE					CH1: +5V fixed, CH2,3 fixed			
					Shipment condition: CH1: ±1% CH2: ±3% CH3: ±5%			
11. MAX. RIPPLE & NOISE (*4)	mV				±3V, 120mV, ±12V: 150mV			
12. MAX. LINE REGULATION (*4.5)	%				CH1: 1%, CH2: 2%, CH3: 1% at minimum load, 50% & 100%			
13. MAX. LOAD REGULATION (*4.6)	%				CH1 (+5V): 2%, CH2: 4% CH3: 2%			
14. MAX. TEMPERATURE DRIFT (*4.7)	±°C				0.04%°C			
15. OVER CURRENT PROTECTION (*8)	-				Automatic recovery, O.C.P point > 105%			
16. OVER VOLTAGE PROTECTION (*9)	V				> 6 (CH1 only)			
17. HOLD - UP TIME (TYP) (*2)	μs				17μs (Input 100 VAC)			
18. OPERATING TEMPERATURE (*10)	°C				Convection cooling 0-50°C: 100% load; 60°C: 70% load			
19. OPERATING HUMIDITY	RH				30%-90%RH			
20. STORAGE TEMPERATURE	°C				-20°C - 85°C			
21. STORAGE HUMIDITY	RH				10%-95%RH			
22. COOLING	-				Convection cooling (100% load)			
23. EMI	-				Conform to FCC-B, VCCI-2, EN55022B			
24. WITHSTAND VOLTAGE	V				I/P-O/P: 3KVAC, I/P-FG: 2.5KVAC, O/P-FG: 500VAC 1min			
25. ISOLATION RESISTANCE	-				Output to chassis 500VDC, > 100Mohm			
26. VIBRATION	G				10 - 55Hz Amplitude (sweep 1min) Less than 2G X,Y,Z th each			
27. SHOCK	G				Less than 20G			
28. OUTPUT GROUNDING	-				All common ground(2terminals)			
29. SAFETY	-				Conform to UL1950, CSA22.2-234, EN60950, DENTORI			
30. WEIGHT	g				350			
31. SIZE (W*D*H)	inch				3.50 x 6.00 x 1.77 (3.15 x 4.80 mounting hole 3.5mm)			
	mm				88.9 x 152.4 x 45.0			

## NOTES:

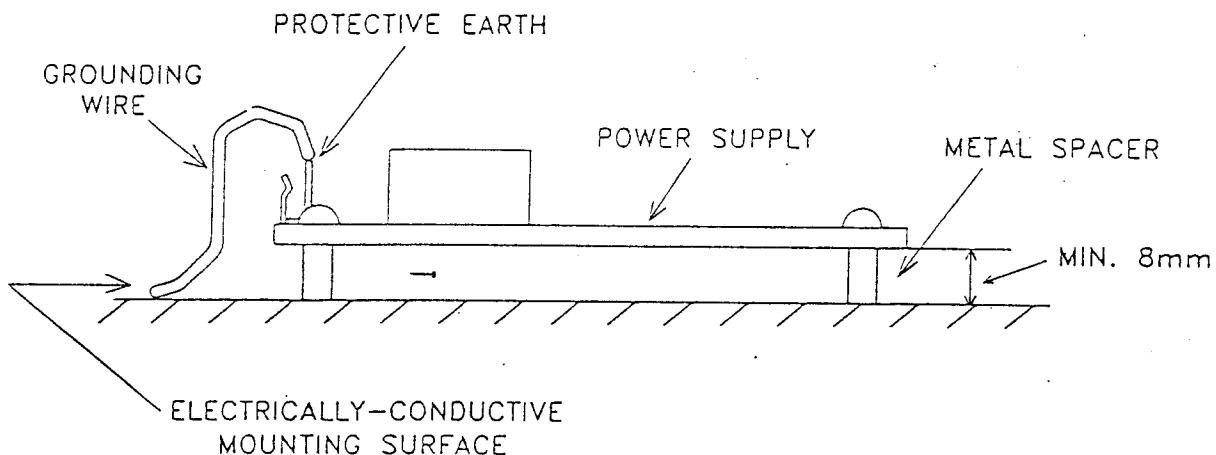
- \*1: With Convection cooling.
- \*2: At 100VAC, 200VAC and Max output power (Convection cooling). Ta=25°C.
- \*3: For cases where conformance to various safety specs (UL, CSA, EN) are required to be described as 100-120VAC, 200-240VAC, 50/60 Hz on name plate.
- \*4: Please refer to Fig. A for measurement determination of line & load regulation and output ripple voltage.
- \*5: From 85-132VAC / 170-265VAC, constant load.
- \*6: From Min. load - Full load ( Maximum power ), constant input voltage. (100VAC or 200VAC)
- \*7: From 0°C - +50°C, constant input voltage and load.
- \*8: Current limiting with automatic recovery. Avoid to operate over load or dead short for more than 30 seconds.
- \*9: Over voltage clamping by zener diode
- \*10: At standard mounting method. Fig B.



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## INSTALLATION:



2. TO MEET SAFETY REQUIREMENTS, THE POWER SUPPLY TERMINALS MUST NOT BE USED DIRECTLY AS THE EXTERNAL TERMINATIONS OF ANY EQUIPMENT.  
Recommended screw torque is 5kg.cm.

3. PROTECTIVE EARTHING:

- 3.1 FOR SAFETY, ENSURE SECURE CONNECTION OF THE  $\ominus$  TERMINAL TO THE GROUND TERMINAL OF THE EQUIPMENT AS THE PROTECTIVE EARTH CONNECTION. SCREWS AND WASHERS USED MUST BE OF SUITABLE MATERIAL AS IN ANNEX J IN EN60950 STANDARD.

4. MOUNTING

- 4.1 FOR OPTIMUM NOISE PERFORMANCE, MOUNT THE POWER SUPPLY UNIT (PSU) ON AN ELECTRICALLY-CONDUCTIVE SURFACE
- 4.2 IF SPACER HEIGHT IS LESS THAN 8mm, BASIC INSULATION MUST BE PROVIDED BETWEEN THE PSU AND THE GROUNDED MOUNTING SURFACE.
- 4.3 EXCEPT FOR THE SOLDER OF THE PSU, A MINIMUM SPACING OF 4mm MUST BE MAINTAINED BETWEEN THE PSU AND EQUIPMENT CHASSIS.
- 4.4 THE PSU MUST BE INSTALLED WHERE EQUIPMENT VENTILATION ENSURE FREE CONVECTION COOLING.
- 4.5 AWG #24~#18 WIRES SHOULD BE USED FOR INPUT AND OUTPUT CONVECTION. TO IMPROVE NOISE PERFORMANCE, INPUT AND OUTPUT WIRES SHOULD BE WELL SEPARATED, BUT EACH PAIR SHOULD BE TWISTED TOGETHER.
- 4.6 RECOMMENDED SCREWS TORQUE IS 5Kg.cm.

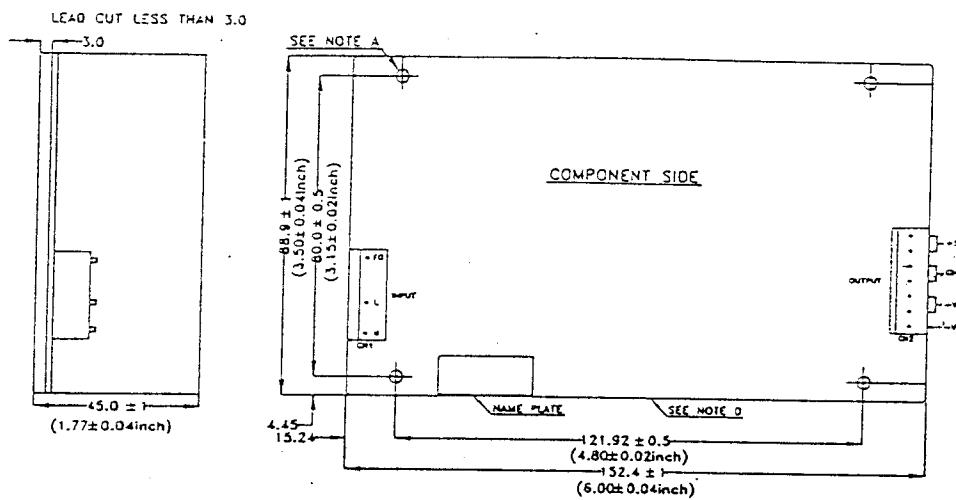
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## 1. OUTLINE AND CONNECTION



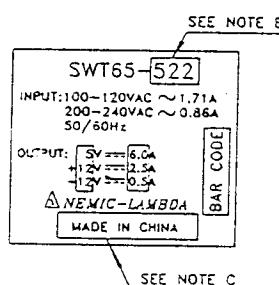
### CONNECTORS USED:

PART DESCRIPTION	CATALOG NO.	MANUFACTURER	QTY
PIN HEADER(INPUT SIDE CN1)	5414-308	MOLEX	1
PIN HEADER(OUTPUT SIDE CN2)	5273-07A	MOLEX	1

### ACCESSORIES:

PART DESCRIPTION	CATALOG NO.	MANUFACTURER	QTY
SOCKET HOUSING (CN1)	NEMIC 5239-06	MOLEX 09-52-4064	1
SOCKET HOUSING (CN2)	NEMIC 5239-07	MOLEX 09-52-4074	1

### NAME PLATE



### NOTES:

A :THE 4 Ø3.5mm HOLES ARE CUSTOMER CHASSIS MOUNTING HOLES. ALL MUST BE SCREWED IN ORDER TO CONFORM TO THE EMI NOISE AND VIBRATION SPEC.. WASHERS ETC. USED MUST NOT EXCEED Ø6mm.

B :MODEL NAME, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND PEAK OUTPUT CURRENT ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.

C :COUNTRY OF MANUFACTURE WILL BE SHOWN HERE.

D :MINIMUM 4mm SPACING BETWEEN PCB EDGE, TOP OF POWER SUPPLY AND CUSTOMER CHASSIS.

E :INPUT TERMINALS

- N - NEUTRAL
- L - LIVE(CONNECTED TO INTERNAL FUSE)
- ⏚ - GROUND (FOR PROTECTIVE EARTH CONNECTION)

F :OUTPUT TERMINALS

- +5V :CH1 OUTPUT TERMINAL
- +V :CH2 OUTPUT TERMINAL
- V :CH3 OUTPUT TERMINAL
- GND :CH1,CH2,CH3 GROUND TERMINAL

G :VR1 IS THE VOLUME FOR ADJUSTING OUTPUT VOLTAGE OF CH1. CH1 IS ADJUST TO 5V (FIXED) DURING MASS PRODUCTION. DO NOT ADJUST UNNECESSARILY.

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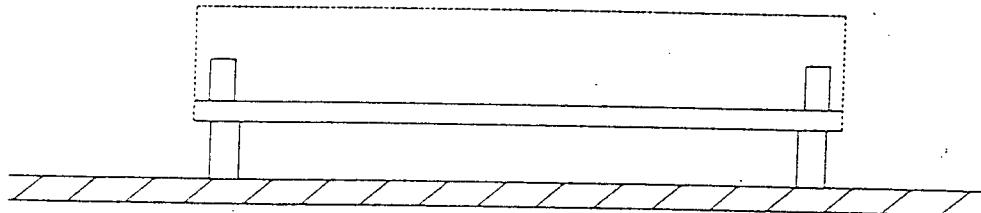
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# SWT65 INSTRUCTION MANUAL

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## MOUNTING POSITION AND OUTPUT DERATING



AMBIENT TEMP. RANGE: 0°C ~ 50°C AT 100% LOAD, 60°C AT 70% LOAD.

OUTPUT DERATING ACCORDING TO SPEC.

## FUSE:

RATING :250V 2.5A

TYPE :FAST-BLOW

CAUTION: CHANGE OF FUSE IS TO BE DONE BY AUTHORISED PERSONNEL ONLY.

VORSICHT: UBERLASSEN SIE WARTUNGSARBEITEN STETS DEM VON ZUGELASSENEN FACHMANN.

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