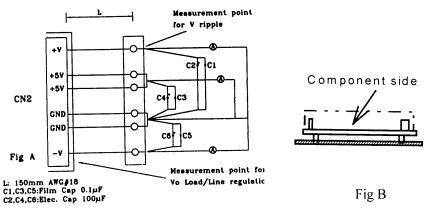
DWG.NO,:CA702-04-01D

SPECIFICATIONS

MODEL		SWT40-522		SWT40-525		SWT40-5FF			REV		
ITEMS		CHI CH2 CH3 CH1 CH2 CH3 CH1 CH2 CH3				CH3	7 '				
1 NOMINAL OUTPUT VOLTAGE	V	+5	+12	-12	+5	+12	-5	+5	+15	-15	
2 MIN. OUTPUT CURRENT	Α	0.2	0.3	0	0.2	0.3	0	0.2	0.3	0	
3 MAX. OUTPUT CURRENT	A	3	2	0.3	3	2	0.3	3	1.5	0.3	
4 PEAK OUTPUT CURRENT (*10)	Α	4.5	3	-	4.5	3	-	4.5	2.4	-	
5 MAX. OUTPUT POWER (PEAK)	W	,	42.6(54.6	<u>)</u>		40.5(51.6)		42(51.	6)	
6 EFFICIENCY (TYP) (* 1)	-				7	0%	<u> </u>	·			
7 INPUT VOLTAGE RANGE (* 2)	-		A	C85~265	V (Contir	uously),	47 ~ 63H	z / 110~3	40VDC	1 11 11 11 11 11 11 11 11 11 11	С
8 INPUT CURRENT (TYP) (* 1)	-			1.11A(Vii	n=100VA	C) / 0.55	A(Vin=20	OVAC)			
9 INRUSH CURRENT (TYP)	-		15A / 100VAC, 30A / 200VAC (cold start, Ta=25°C)								
10 OUTPUT VOLTAGE		CH1 +5V fixed, CH2.3 fixed						1			
	-	Shipmer	Shipment condition: CH1: ±1%, CH2(+12V): ±3%,CH2(+15V): ±5%, CH3: ±5%								
11 MAX. RIPPLE & NOISE (* 3)	-			±5V: 120	mV; =	±12V: 15	0mV; ±	15V: 150	mV		
12 MAX. LINE REGULATION (*3,4)	-		CH1:1%, CH2: 2%, CH3: 1%						1		
13 MAX. LOAD REGULATION (*3,5)	-	CH1: 2%, CH2: 4%, CH3: 2%									
14 MAX. TEMPERATURE DRIFT (*3,6)	-	0.04%/°C									
15 OVER CURRENT PROTECTION (* 7)	-	Automatic recovery, O.C.P point: 140% ~									
16 OVER VOLTAGE PROTECTION (* 8)	-	6V ~ (CH1 only)									
17 HOLD - UP TIME (TYP) (* 1)	-	17ms (Input 100 VAC)									
18 OPERATING TEMPERATURE (* 9)	-	Convection cooling 0~50°C: 100% load; 60°C: 70% load									
19 OPERATING HUMIDITY	-	30%~90%RH									
20 STORAGE TEMPERATURE	-	-20°C ~ +85°C									
21 STORAGE HUMIDITY	-	10%~95%RH									
22 COOLING	-	Convection cooling									
23 EMI	-	Conform to FCC-B, VCCI-2, EN55022B									
24 WITHSTAND VOLTAGE	-	// //						ı D			
25 ISOLATION RESISTANCE	-	More than 100MΩ at Ta=25°C and 70%RH, Output - FG 500VDC									
26 VIBRATION	-	10 - 55Hz Amplitude (sweep 1min) Less than 19.6m/s ² X,Y,Z 1Hr each						D			
27 SHOCK	-	less than 196.1m/s ²						D			
28 OUTPUT GROUNDING	-	All channels common ground (2 terminals)									
29 SAFETY	-	Conform to UL1950, CSA950, EN60950, DENTORI									
30 WEIGHT	-				280g						
31 SIZE (W*D*H)	m/m	1			127.0 x						
	inch 3.00 x 5.00 x 1.40 (2.55 x 4.55 mounting hole Φ 3.5mm)										

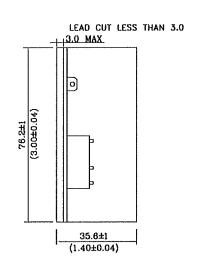
NOTES

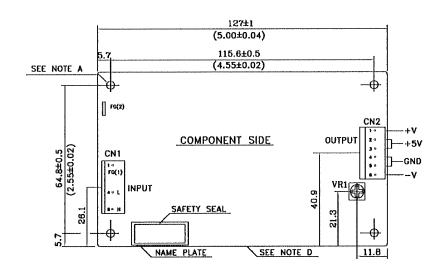
- *1. At 100VAC, 200VAC and MAX. OUTPUT POWER (Convection cooling), Ta=25°C.
- *2. For cases where conformance to various safety specs (UL,CSA, EN) are required to be described as 100~120VAC, 200~240VAC, 50/60 Hz on name plate.
- *3. Please refer to Fig A for measurement determination of line & load regulation and output ripple voltage.
- *4. From 85~132VAC / 170~265VAC, constant load.
- *5. From Min. load Full load (Maximum power), constant input voltage.
- *6. From 0° C ~ +50°C, constant input voltage and load.
- *7. Current limiting with automatic recovery. Avoid to operate over load or dead short for more than 30 seconds.
- *8. Over voltage clamping by zener diode.
- *9. At standard mounting method, Fig B.
- *10. Peak current operation is less than 10 sec. with duty factor less than 30%. In addition, it does not has to satisfy the total regulation specification.



DWG.NO.CA702-04-02E

1.OUTLINE AND CONNECTION





CONNECTORS USED:

PART DESCRIPTION	CATALOG NO.	MANUFACTURER	QTY
PIN HEADER (INPUT SIDE CN1)	5414-30B	MOLEX	1
PIN HEADER(OUTPUT SIDE CN2)	5273-06A	MOLEX	1

RECOMMENDED HOUSING & TERMINAL PIN.

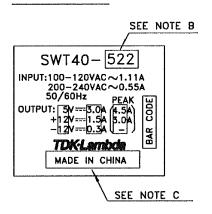
NOT INCLUDED WITH THE PRODUCT.

SOCKET HOUSING (CN1)*1	5195-06	MOLEX	1
SOCKET HOUSING (CN2)*1	5195-06	MOLEX	1
TERMINAL PINS (CN1, 2)	5194PBT	MOLEX	9

HAND CRIMPING TOOL: 11-26-0058

MANUFACTURER: MOLEX

NAME PLATE



NOTES:

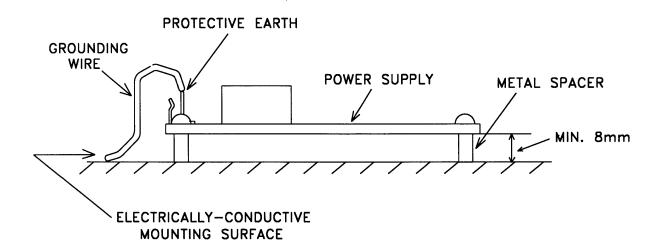
- A :THE 4 Ø3.5mm HOLES ARE CUSTOMER CHASSIS MOUNTING HOLES. ALL MUST BE SCREWED IN ORDER TO CONFORM TO THE EMI NOISE AND VIBRATION SPEC.. WASHERS ETC. USED MUST NOT EXCEED Ø6mm.
- B :MODEL NAME, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND PEAK OUTPUT CURRENT ARE SHOWN HERE IN ACCORDANCE WITH 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
 - NEUTRAL
 - 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 ADJUSTED TO 5V (FIXED) DURING MASS PRODUCTION. DO NOT ADJUST UNNECESSARILY.
- H :FG(1) OR FG(2) IS FOR SAFETY GROUND CONNECTION. CAN USE ALTERNATIVE ONE.

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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.

THIS PRODUCT MUST BE INSTALLED IN A RESTRICTED ACCESS LOCATION, ACCESSIBLE TO AUTHORISED COMPETENT PERSONNEL ONLY.

WHERE CSA APPROVED, CSA APPROVAL IS TO LEVEL 3.

3. PROTECTIVE EARTHING:

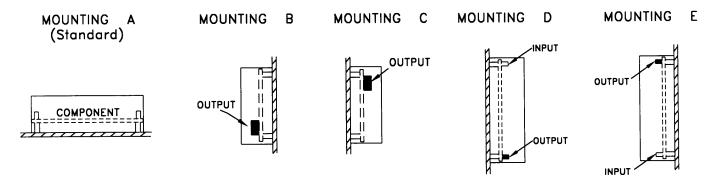
3.1 FOR SAFETY, ENSURE SECURE CONNECTION OF THE \bigoplus TERMINAL TO THE GROUND TERMINAL OF THE EQUIPMENT AS THE PROTECTIVE EARTH CONNECTION. SCREWS AND WASHERS USED MUST BE OF SUITABLE MATERIAL AS IN ANNEX J IN EN60950 STANDARD.

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 SIDE 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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5. MOUNTING POSITION AND OUTPUT DERATING



OUTPUT DERATING

	LOADING CONDITION (%)						
Ta(°C)	MOUNTING A	MOUNTING B	MOUNTING C	MOUNTING D	MOUNTING E		
0	100	100	100	100	100		
20	100	100	100	100	100		
40	100	100	100	100	100		
50	100	75	75	75	75		
60	70	50	50	50	50		

FUSE:F1

RATING :250V T2.5AH

TYPE :TIME-LAG

AVOID USING FAST-BLOW TYPE.

FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.

CAUTION: CHANGE OF FUSE IS TO BE DONE BY AUTHORISED PERSONNEL ONLY. VORSICHT: UBERLASSEN SIE WARTUNGSASRBEITEN STETS DEM VON ZUGELASSENEN FACHMANN.

DO NOT TOUCH THE POWER SUPPLY HEATSINKS. THESE HEATSINKS MAY CARRY HARZARDOUS VOLTAGE WHEN THE POWER SUPPLY IS SWITCHED ON.

CE MARKING:

CE MARKING, WHEN APPLIED TO THE UNIT, INDICATES COMPLIANCE WITH THE LOW VOLTAGE DIRECTIVE (73/23/EEC). AS MODIFIED BY THE CE MARKING DIRECTIVE (93/68/EEC) IN THAT, IT COMPLIES WITH EN60950.