Component side

Fig. B

Fig. A

ZWD150PAF/L SPECIFICATIONS

PA573-01-01/L-B

(This specifications sheet also apply to option model /JL, /TL.)

MODEL		ZWD150PAF-0524/L		
ITEMS				
1 Nominal Output Voltage	V	5	24	
2 Maximum Output Current	Α	5	6	
3 Peak Output Current (100/200VAC) (*	1) A	-	10 / 12	
4 Total Average Output Power	W	1:	50	
5 Maximum Peak Output Power (*	1) W	-	240 / 288	
6 Total Peak Output Power (100/200VAC) (*	1) W	246 / 294		
7 Efficiency (100/200VAC) (Typ) (*	2)%	80 / 82		
8 Input Voltage Range (*	3) -	85 - 265VAC (47-63Hz) or 120 - 370VDC		
9 Input Current (100/200VAC) (Typ) (*	2) A	1.90 / 0.97		
10 Inrush Current (Typ) (*	4) -	15A at 100VAC, 30A at 20	0VAC, Ta=25°C, Cold Start	
11 PFHC	-	Designed to mee	et IEC61000-3-2	
12 Power Factor (100/200VAC) (Typ) (*	2) -	0.99	0/0.95	
13 Output Voltage Accuracy (*	2) V	4.9 - 5.1	23.52 - 24.48	
14 Output Voltage Adjustable Range	V	4.5 - 5.5	22.8 - 27.6	
15 Maximum Ripple & Noise 0≤Ta≤70	°C mV	120	150	
(*5)-10 <u><</u> Ta<0		160	180	
16 Maximum Line Regulation (* 5,	6) mV	20	96	
17 Maximum Load Regulation (* 5,	7) mV	40	150	
18 Temperature Coefficient	-	0.02	‰/°C	
*	8)%	> 105	> 205	
20 Over Voltage Protection (*	9)%	120 - 145	120 - 145	
21 Hold-Up Time (Typ) (*	2) ms	40	20	
	0) mA	0.75 max (Low leakage current option ava	ilable> /FG. Refer to application note)	
23 Remote ON/OFF Control	-	-	Possible	
24 Parallel Operation	-	Not possible		
25 Series Operation	-	Not possible		
26 Operating Temperature (* 1	1) -	- 10 to + 70 °C		
	,		0%, +60°C : 50%, +70°C : 0%	
27 Operating Humidity	-	20 - 90 %RH (No dewdrop)		
28 Storage Temperature	-	- 30 to +85°C		
29 Storage Humidity	-	10 - 95%RH	(No dewdrop)	
30 Cooling	-	Convection cooling		
31 Withstand Voltage	-	6		
6			C (100mA) for 1min.	
32 Isolation Resistance	-	More than $100M\Omega$ at Ta=25°C and 70%RH, Output - FG : 500VDC		
33 Vibration (Non-Operating)	-	10 - 55Hz (sw		
			tant, X, Y, Z 1hour each	
34 Shock (In package)	-	Less than 196.1m/s ²		
35 Safety	-			
		Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950- EN60950-1 (Expire date of 60950-1 : 20/12/2020), EN50178,		
		Designed to meet DEN-AN at 100VAC only		
36 EMI	-	Complies with FCC-B, CISPR22-B, EN55032-B, VCCI-B		
37 Immunity	-	Designed to meet EN61000-4-2,-3,-4,-5,-6,-8,-11		
38 Weight (Typ)	g	775		
39 Size (W.H.D.)	g mm	95 x 46 x 252 (Refer to Outline Drawing)		
Read instruction manual carefully, before using the power			to Gutine Diawing)	

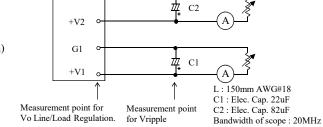
* Read instruction manual carefully, before using the power supply unit. = NOTES=

* 1 : Operating period at peak output current (i) 6-10A: less than 10sec; Duty ≤ 0.35 (ii) 10-12A: less than 5sec; Duty ≤ 0.20 . (Average output power and current is less than Maximum output power and current) For peak load derating method, please refer to instruction manual for details.

CN2

G2

- * 2 : At 100/200VAC and total average output power, Ta = 25°C.
- * 3 : For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC, 50 / 60Hz on name plate.
- * 4 : Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- * 5 : Please refer to Fig A for measurement of line & load regulation and output ripple voltage.
- (Measure with normal probe)
- * 6 : 85 132VAC and 170 265VAC, constant load.
- * 7 : No load Full load, constant input voltage.
- * 8 : Current limiting with automatic recovery. Avoid to operate at overload or dead short for more than 30seconds.
- * 9 : OVP circuit will shutdown output, manual reset. (Line recycle) (OVP for V1, V1 & V2 shutdown, OVP for V2, only V2 shutdown)
- *10: Measured by each measuring method of UL, CSA, EN and DEN-AN (at 60Hz).
- *11: At standard mounting method, Fig B.
 - Load(%) is percent of maximum output load (Item 2 and 4), do not exceed derating in both Maximum Output Current and Power. -For other mountings, refer to derating curve PA573-01-02/L_



-When forced air cooling, refer to derating curve PA573-01-03/L

OUTPUT DERATING

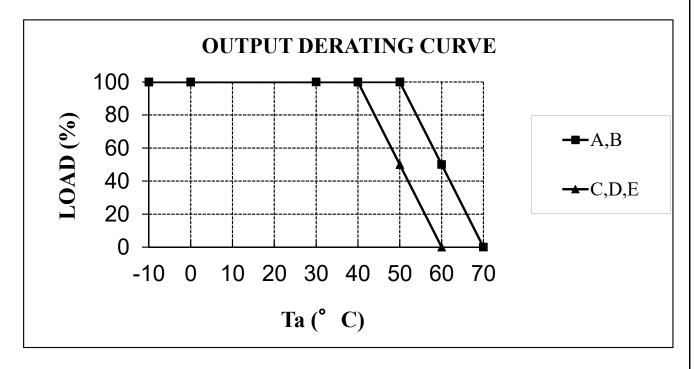
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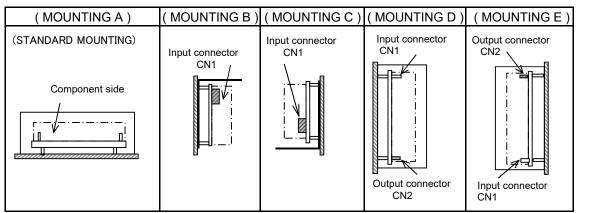
(This specifications sheet also apply to option model /JL, /TL.)

ZWD150PAF-0524/L

***COOLING: CONVECTION COOLING**

	LOADING CONDITION(%)					
Ta (°C)	Mounting A,B	Mounting C,D,E				
-10~40	100	100				
50	100	50				
60	50	0				
70	0	-				





TDK-Lambda

OUTPUT DERATING

PA573-01-03/L

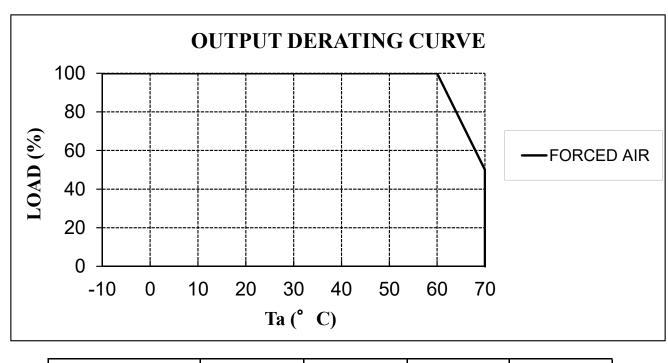
(This specifications sheet also apply to option model /JL, /TL.)



*COOLING: FORCED AIR COOLING

	LOADING CONDITION (%)		
Ta (°C)	Mounting A,B,C,D,E		
-10~60	100		
70	50		

Recommended Minimum Air Velocity: 0.7m/s (Measured at component side of PCB, Air must flow through component side.)



(MOUNTING A)	(MOUNTING B)	(MOUNTING C)	(MOUNTING D)	(MOUNTING E)
(STANDARD MOUNTING)	Input connector	Input connector CN1	Input connector CN1	Output connector CN2