

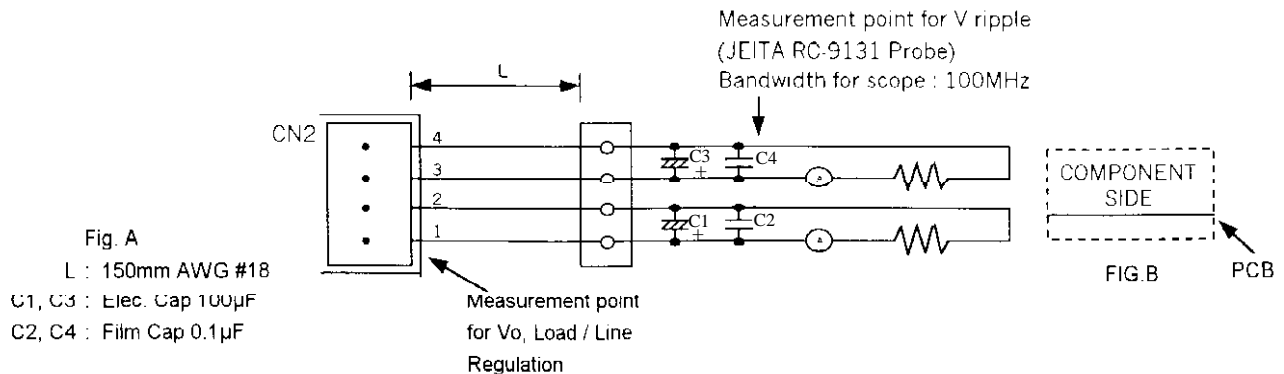
ZD30 SPECIFICATIONS

PA754-01-01A

ITEMS	MODEL	ZD30						
		1205		2405		2408		
1	Nominal Output Voltage	V	12	5	24	5	24	8
2	Minimum Output Current	A	0.21	0	0.11	0	0.11	0
3	Maximum Output Current	A	2.1	1.0	1.1	1.0	1.1	0.7
4	Maximum Output Power	W	30.2		31.4		32	
5	Efficiency (Typ) (*1)	%	71		71		71	
6	Input Voltage Range (*2)		85-132VAC/170-265VAC (47-110Hz) or 230-330VDC					
7	Input Current (Typ) (*1)	-	0.8/0.4A at 100/200VAC					
8	Inrush Current (Typ)	-	30A at 100VAC/30A at 200VAC, Ta = 25°C COLD START					
9	Output Voltage Range	-	CH1 : +5% -0%, CH2 : Fixed (±5%)					
10	Maximum Ripple & Noise (*3)	mV	150	120	200	120	200	150
11	Maximum Line Regulation (*3, 4)	mV	48	20	96	20	96	32
12	Maximum Load Regulation (*3, 5)	mV	96	40	150	40	150	64
13	Maximum Temperature Drift (*3, 6)	mV	120	100	240	100	240	100
14	Over Current Protection (*7)	-	105% ~					
15	Over Voltage Protection (*8)	-	Output shutdown 115% ~ 135% (CH1 only)					
16	Hold-Up Time (Typ) (*1)	-	17 mS					
17	Operating Temperature (*9)	-	-10 ~ 50°C ; 100% 60°C ; (70%)					
18	Operating Humidity	-	30 ~ 90% RH					
19	Storage Temperature	-	-30 ~ 85°C					
20	Storage Humidity	-	10 ~ 95% RH					
21	Cooling	-	Convection Cooled					
22	Withstand Voltage	-	Input - Output : 3.75KVAC, Input-FG : 2.5KVAC Output -FG : 500VAC 1 min.					
23	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output-FG 500VDC					
24	Vibration	-	10-55Hz Amplitude (sweep 1 min) Less than 2G X,Y,Z 1h each					
25	Shock	-	Less than 20G					
26	Safety	-	Built to meet UL1950-D3, CSA1402C & DENTORI, VDE0805/0806					
27	Conducted Radio Noise	-	Built to meet VCCI-II & FCC class B & VDE class B					
28	Weight	g	220					
29	Size (W.H.D)	mm	80 . 26 . 140					

NOTES :

- *1 : At 100VAC and Maximum Output Power, Ta = 25°C.
- *2 : For cases where conformance to various safety specs (UL, CSA, VDE) are required to be described as 100-120VAC, 200-240VAC, 50/60Hz 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 -10 ~ +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 : OVP circuit will shut down output, manual reset.
- *9 : At standard mounting method, Fig. B.



ZD 30

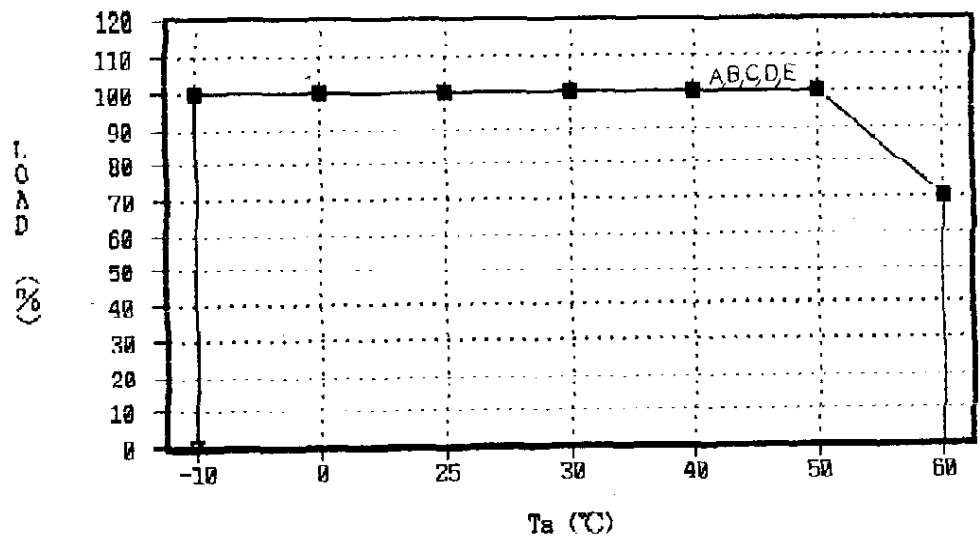
OUTPUT DERATING

PA754-01-02

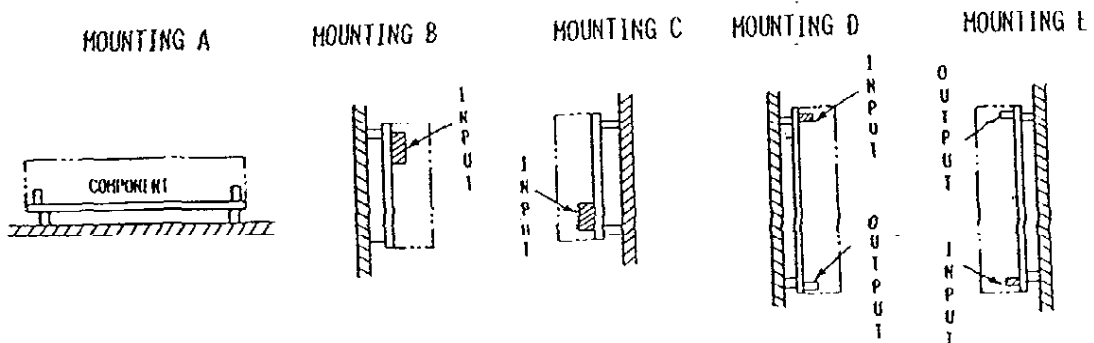
* COOLING: CONVECTION COOLING

Ta (°C)	LOAD (%)				
	MOUNTING:A	MOUNTING:B	MOUNTING:C	MOUNTING:D	MOUNTING:E
-10	100	100	100	100	100
0	100	100	100	100	100
25	100	100	100	100	100
30	100	100	100	100	100
40	100	100	100	100	100
50	100	100	100	100	100
60	70	70	70	70	70

OUTPUT DERATING CURVE



□ MOUNTING:A + MOUNTING:B ◇ MOUNTING:C △ MOUNTING:D × MOUNTING:E



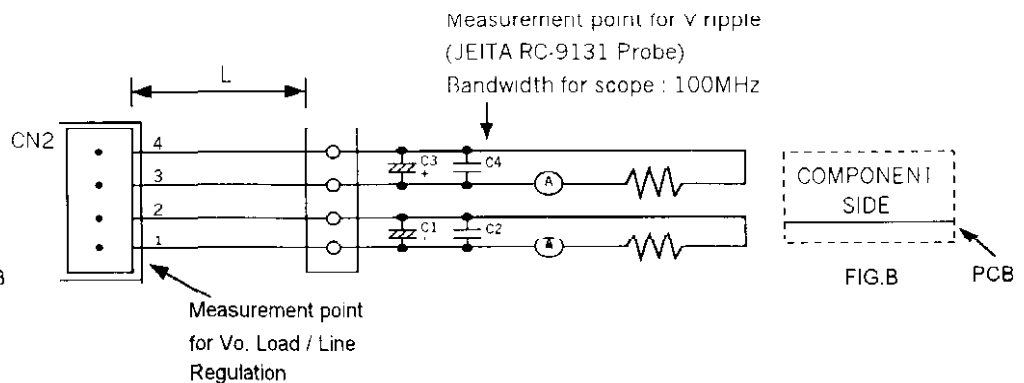
ZD30 SPECIFICATIONS

PA754-01-03A

ITEMS		MODEL	ZD30			
			4815			
1	Nominal Output Voltage	V	48	15		
2	Minimum Output Current	A	0.05	0		
3	Maximum Output Current	A	0.2	0.6		
4	Maximum Output Power	W	18.6			
5	Efficiency (Typ) (*1)	%	69			
6	Input Voltage Range (*2)	-	85-132VAC/170-265VAC (47-440Hz) or 230-330VDC			
7	Input Current (Typ) (*1)	-	0.6/0.3A at 100/200VAC			
8	Inrush Current (Typ)	-	30A at 100VAC/30A at 200VAC, Ta = 25°C COLD START			
9	Output Voltage Range	-	CH1 : +5% -10%, CH2 : Fixed (±5%)			
10	Maximum Ripple & Noise (*3)	mV	400	150		
11	Maximum Line Regulation (*3, 4)	mV	192	60		
12	Maximum Load Regulation (*3, 5)	mV	300	120		
13	Maximum Temperature Drift (*3, 6)	mV	480	150		
14	Over Current Protection (*7)	-	105% ~			
15	Over Voltage Protection (*8)	-	Output shutdown 115% ~ 135% (CH1 only)			
16	Hold-Up Time (Typ) (*1)	-	17 Ms at 18.6W			
17	Operating Temperature (*9)	-	-10 ~ 50°C ; 100% 60°C ; (70%)			
18	Operating Humidity	-	30 ~ 90% RH			
19	Storage Temperature	-	-30 ~ 85°C			
20	Storage Humidity	-	10 ~ 95% RH			
21	Cooling	-	Convection Cooled			
22	Withstand Voltage	-	Input - Output : 3.75KVAC, Input-FG : 2.5KVAC Output -FG : 500VAC 1 min.			
23	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output-FG 500VDC			
24	Vibration	-	10-55Hz Amplitude (sweep 1 min) Less than 2G X,Y,Z 1h each			
25	Shock	-	Less than 20G			
26	Safety	-	Built to meet UL1950-D3, CSA1402C & DENTORI, VDE0805/0806			
27	Conducted Radio Noise	-	Built to meet VCCI II & FCC class B & VDE class B			
28	Weight	g	220			
29	Size (W.H.D)	mm	80 . 26 . 140			

NOTES :

- *1 : At 100VAC and Maximum Output Power, Ta = 25°C
- *2 : For cases where conformance to various safety specs (UL, CSA, VDE) are required to be described as 100-200VAC, 200-240VAC, 50/60Hz 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 -10 ~ +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 : OVP circuit will shut down output, manual reset.
- *9 : At standard mounting method, Fig. B.



C1, C3 : Elec. Cap 100μF
C2, C4 : Film Cap 0.1μF