

KWS5 Specifications

NEMIC-LAMBDA

PA766-01-01A

*: For delivery, contact to our sales office.

ITEMS		MODEL	KWS5-5	KWS5-12	KWS5-15
1	Nominal Output Voltage	V	5	12	15
2	Minimum Output Current	A	0	0	0
3	Maximum Output Current	A	1.0	0.45	0.35
4	Maximum Output Power	W	5.0	5.4	5.25
5	Efficiency (typ)	(*1) %	67	70	70
6	Input Voltage Range	(*2) -	85 ~ 265VAC (47~440Hz) or 110 ~ 340VDC		
7	Input Current (typ)	(*1) A	0.2A at 100VAC		
8	Inrush Current (typ)	A	15A at 100VAC, 30A at 200VAC		
9	Output Voltage Range	-	FIXED $\pm 5\%$ (Max)		
10	Maximum Ripple & Noise	(*3) mV	120	150	150
11	Maximum Line Regulation	(*3,*4) mV	20	48	60
12	Maximum Load Regulation	(*3,*5) mV	40	96	120
13	Maximum Temperature Drift	(*3,*6) mV	50	120	150
14	Over Current Protection	(*7) -	105% ~		
15	Over Voltage Protection	(*8) -	110% ~		
16	Parallel Operation	-	_____		
17	Series Operation	-	Possible		
18	Hold-Up Time (typ)	-	17mS at 5W, 100VAC, Ta = 25°C		
19	Operating Temperature	-	-10°C ~ +70°C (-10°C : 80%, 0~+50°C : 100%, +70°C : 25%)		
20	Operating Humidity	-	30 ~ 90%RH (No dewdrop)		
21	Storage Temperature	-	-30 ~ +85°C		
22	Storage Humidity	-	20%RH ~ 95%RH (No dewdrop)		
23	Cooling	-	Convection Cooling		
24	Withstand Voltage	-	Input-Output : 3kVAC (20mA), Input-FG : 2kVAC (20mA) Output-FG : 500VAC(100mA) for 1minute each.		
25	Isolation Resistance	-	More than 100M Ω at 25°C and 70%RH Output-FG 500VDC		
26	Vibration	-	10~55Hz, Constant Amplitude 1.65mm p-p (Max 10G), sweep 1 Minute X,Y,Z 1 hour each		
27	Shock	-	Less than 50G for 11 \pm 5mS on \pm (X, Y, Z) axis each 3 times		
28	Safety	-	Approved by UL1950, CSA950, EN60950		
29	Conducted Radio Noise	(*9) -	Built to meet VCCI-Class A, FCC-class B, VDE-classB		
30	Weight	g	75g		
31	Size (WxHxD)	mm	45 x 20.5 x 55 (Refer to Outline Drawing)		

* Read Instruction manual carefully, before using the power supply unit.

= NOTES =

- *1. At 100VAC and Maximum Output Power, Ta=25C.
- *2. For cases where conformance to various safety specs (UL, CSA & TUV) are required to be described as 100-240VAC, 50/60Hz on name plate.
- *3. Please refer to Fig. A for measurement determination of line & load regulation and output ripple & noise voltage.
- *4. From 85~265VAC, constant load.
- *5. From Min load - Full load (Maximum power), constant input Voltage.
- *6. From 0~50°C, constant input voltage and load.
- *7. Current limiting with automatic recovery. Avoid to operate over load or dead short for more than 30seconds.
- *8. Over Voltage Clamping by Zener Diode.
- *9. VDE class-B with external capacitor.

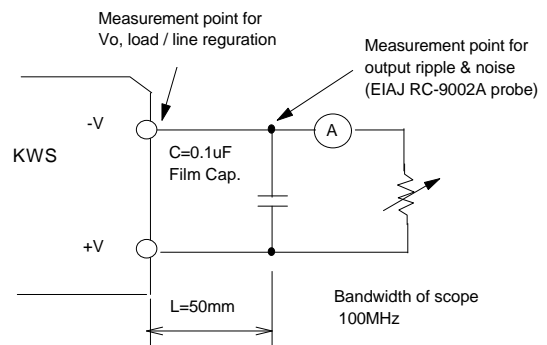


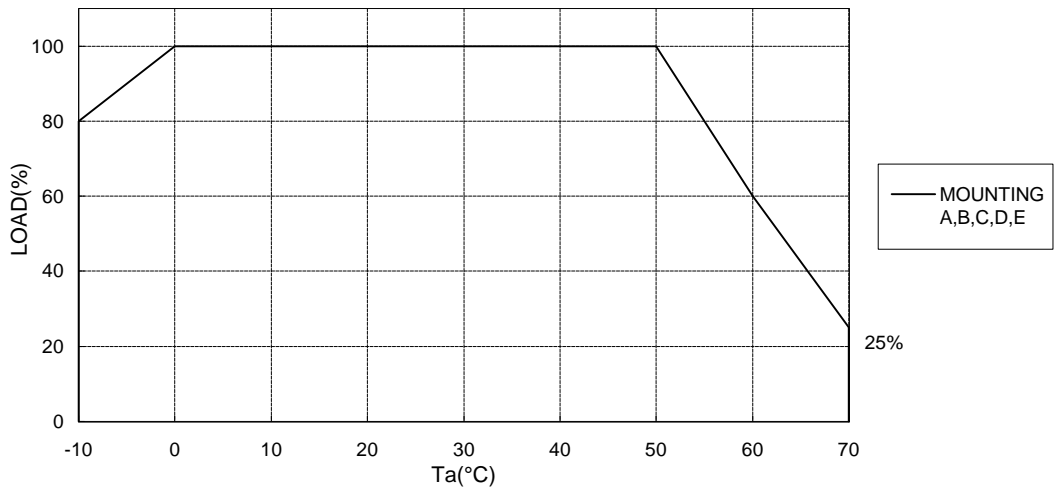
Fig.A

KWS5 OUTPUT DERATING

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Ta (°C)	LOAD (%)				
	MOUNTING : A	MOUNTING : B	MOUNTING : C	MOUNTING : D	MOUNTING : E
-10	80	80	80	80	80
0 ~ +20	100	100	100	100	100
25	100	100	100	100	100
40	100	100	100	100	100
50	100	100	100	100	100
60	60	60	60	60	60
70	25	25	25	25	25

OUTPUT DERATING CURVE



MOUNTING : A
(STANDARD MOUNTING)

MOUNTING : B

MOUNTING : C

MOUNTING : D

MOUNTING : E

