

Typical Performance

FEATURES

- Wide Input voltage range
- Typical efficiency:82%
- Switching frequency: 100 KHz
- Overcurrent/Short circuit protection,Self-furbish
- Input-output isolate
- PCB board in-line type installs
- Metal case



3-Years Product Warranty

Technology parameter

Test condition:General Nominal Line,Tc=25℃, Rated resistant load unless other wisespecified

Input Feature	Min	Nom	Max	Notes
Input voltage (Vac)	165(200Vdc)	220	265(380Vdc)	N
	85(120Vdc)	220	265(380Vdc)	W
Input voltage (Hz)	47		440	
Remote ON/OFF				NONE

Output Feature

Voltage accuracy		Vo1; Vo2	±1.0%, ±3.0%
Line regulation	Nominal load,full voltage input range	Vo1; Vo2	±0.1%; ±1.5%
Load regulation	Nominal input voltage,20% ~ 100% Nominal load	Vo1; Vo2	±0.5%; ±3.0%
Ripple and noise	20MHz BM,test by 20M oscillograph		≤1%Vo
Peak deviation	25% Rated load vary	ΔVo1/ Vo1	≤±5.0%
Dynamic response setting time			≤200us

General Feature

Efficiency			82% Typical
Switching frequency			100KHz
Operating temperature			-20℃ ~ +55℃
Storage temperature			-40℃ ~ +105℃

Max case temperature			+90℃
Relative humidity			10%~90%
case material			Metal case
Isolation voltage		Input-Output	2500Vac/1min
		Input-Case	2500Vac/1min
		Output-Case	500Vac/1min
Temperature coefficient			≤±0.03%/℃
Cooling			Natural convection
MTBF	BELLCORE TR332, (25℃)		2X10 ⁵ Hrs

NOTE:

(1)The 50-75W module working environment temperature more than 55℃ need derating use (- 0.86W/℃ for 50W, - 2.2W/℃ for 75W), but the max shell temperature shall not be more than 90℃.

(2)Capacitive load:

The output of the module can be applied electrolytic capacitor, but too much capacity and low ESR may cause the module instability, or cause current limiting point become low, we recommend 100 uF/A of the output capacitance, the current is rated output current.

Product Nomination Method

exam ple	N A 25 – 220 S 05 J ① ② ③ ④ ⑤ ⑥ ⑦						
①	Wide input voltage range: AC85-265V Narrow input voltage range: AC165-265V				⑤	S=Single route output, D=Dual route output, T=Triple route output, Q=Quadruple output	
②	Power adaptation mode: A（AC-DC）				⑥	output voltage	
③	Output power(W)				⑦	I: Dual output isolated	
④	Normal input voltage					J:Military level	

Product Program

PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
LA75-220S05B	220V(85~265VAC) 120~380VDC	5V	15000mA				
LA75-220S09B		9V	8300mA				
LA75-220S12B		12V	6250mA				
LA75-220S15B		15V	5000mA				
LA75-220S24B		24V	3125mA				

LA75-220S48B		48V	1560mA				
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*NOTE:
The output ripple noise (peak value) measurement, please reference module test instructions.

Mechanical Dimension

The mechanical drawing shows the bottom view of the module. The main body is rectangular with a width of 127.0 mm (5.0 inches). The mounting holes are spaced 106.7 mm (4.2 inches) apart. The distance from the top edge to the first mounting hole is 17.3 mm (0.68 inches), and the distance between the two mounting holes is 9.9 mm (0.39 inches). The mounting holes have a diameter of d=1 (0.04 inches). The pin locations are numbered 1 through 13. The distances from the left edge to the pins are: Pin 1 (20.32 mm / 0.8 inches), Pin 2 (10.16 mm / 0.4 inches), Pin 3 (15.24 mm / 0.6 inches), and Pin 4 (15.24 mm / 0.6 inches). The distances from the right edge to the pins are: Pin 13 (5.08 mm / 0.2 inches), Pin 12 (10.16 mm / 0.4 inches), Pin 11 (5.08 mm / 0.2 inches), Pin 10 (5.08 mm / 0.2 inches), Pin 9 (7.62 mm / 0.3 inches), Pin 8 (7.62 mm / 0.3 inches), Pin 7 (7.62 mm / 0.3 inches), Pin 6 (7.62 mm / 0.3 inches), and Pin 5 (7.62 mm / 0.3 inches). The total height of the module is 88.9 mm (3.5 inches).

BOTTOM VIEW

UNIT:mm(inch)

Temperature Curve

The temperature curve graph shows the relationship between output power and temperature. The x-axis represents Temperature in degrees Celsius, ranging from -10 to 110. The y-axis represents Output power as a percentage, ranging from 0% to 100%. The curve shows that the output power is constant at 100% until approximately 65°C, after which it decreases linearly to 0% at approximately 85°C.

Temperature (°C)	Output power (%)
-10	100
0	100
10	100
20	100
30	100
40	100
50	100
60	100
65	100
70	80
75	60
80	40
85	20
90	0

Mechanical Data

WATT	L x W x H	Packing No.

75W			127.0 x 88.9 x 17.2mm(5*3.5*0.68inch)					B		
Pin Assignment										
PIN	1	2	3	4	5:6	7:8	9:10	11	12	13
Single O/P	NC	FG	AC(N)	AC(L)	+Vo	GND	NC	+S	TRIM	-S
Dual O/P	NC	FG	AC(N)	AC(L)	+Vo1	COM	-Vo2	+S	TRIM	-S
Note: The power modules such as the definition of the pin does not match with the hand book,please refer to the actual item.										