

Typical Performance

FEATURES

- Wide input voltage range
- Typical efficiency : 78%
- Switching frequency: 60 KHz
- Overcurrent/Short circuit protection,Self-furbish
- Input-output isolate
- PCB board in-line type installs
- Plastics case



3-Years Product Warranty

Technology parameter Test condition:General Nominal Line,Tc=25°C , Rated resistant load unless other wise specified

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

Output Feature

Voltage accuracy		Vo1; Vo2, Vo3;	±1.0%, ±3.0%
Line regulation	Nominal load,full voltage input range	Vo1; Vo2, Vo3;	±0.1%; ±1.5%
Load regulation	Nominal Input voltage,20% ~ 100% nominal load	Vo1; Vo2, Vo3;	±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			78% typical
Switching frequency			60KHz typical
Operating temperature			-25°C ~ +55°C
Storage temperature			-40°C ~ +105°C

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 module working environment temperature more than 70 ℃ need derating use (- 0.15W/℃), 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

example	L A 5 - 220 S 05		
	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	
④	Normal input voltage		

Product Program

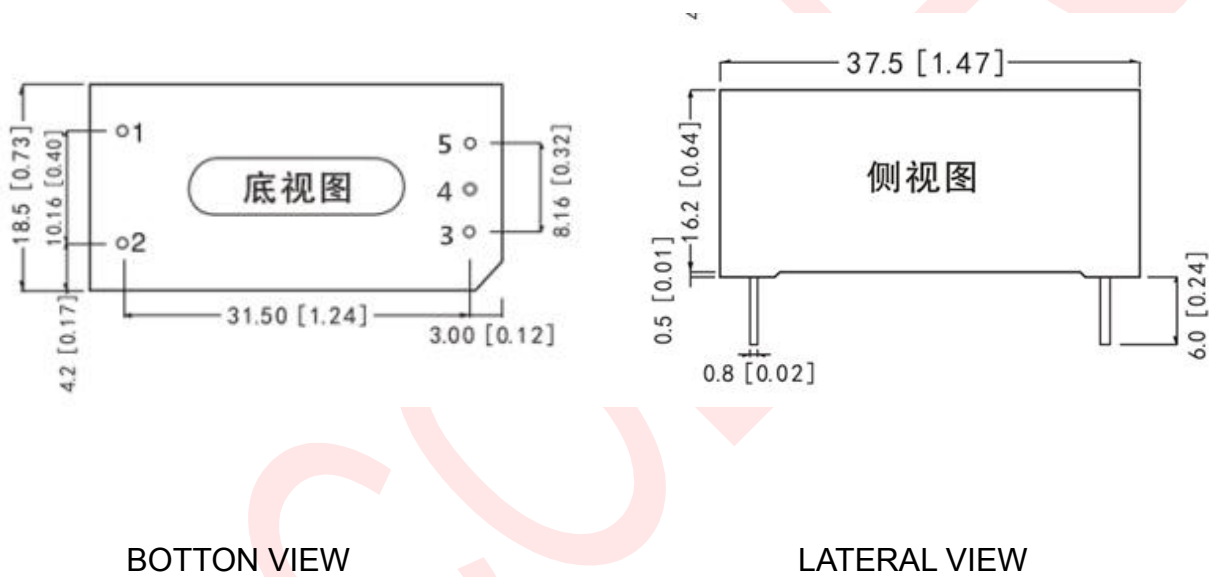
PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
LA3-220S3V3D	220V(85~265VAC) 120~380VDC	3.3V	900mA				
LA3-220S05D		5V	600mA				
LA3-220D05D		+5V	300mA	-5V	300mA		
LA3-220S09D		9V	278mA				

LA3-220S12D		12V	210mA				
LA3-220D12D		+12V	125mA	-12V	125mA		
LA3-220S15D		15V	200mA				
LA3-220D15D		+15V	100mA	-15V	100mA		
LA3-220S24D		24V	125mA				
LA3-220D24D		+24V	100mA	-24V	63mA		

*NOTE:

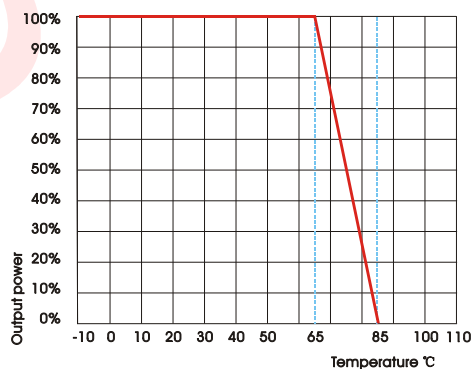
The output ripple noise (peak value) measurement, please reference module test instructions.

Mechanical Dimension



Unit:mm(inch)

Temperature Curve



Mechanical Data

WATT	L x W x H	Packing No.
3W	37.0*18.5*16.2mm(1.47*0.73*0.64inch)	D

Pin Assignment

PIN	1	2	3	4	5					
Single O/P	AC(L)	AC(N)	GND	NP	Vo1					
Dual O/P	AC(L)	AC(N)	Vo2	COM	Vo1					

Note: The power modules such as the definition of the pin does not match with the hand book, please refer to the actual item.