ECCO Electronics Technology Co.,ltd

25W AC/DC converter

Typical Performance

FEATURES

- Wide Input voltage range
- Typical efficiency ： 80%
- Switching frequency：60 KHz
- Overcurrent/Short circuit protection,Self-furbish
- Input-output isolate
- PCB board in-line type installs
- Plastic/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
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；	±0.2%(3-15W)；±1.5%
			±0.1%(20-30W)；±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			80% typical
Switching frequency		below 10W: 60 KHz	100KHz
Operating temperature			-20℃ ~ +55℃

Storage temperature			-40℃ ~ +105℃
Max case temperature			+90℃
Relative humidity			10%~90%
case material			Plastic/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 3-15W module working environment temperature more than 70 ℃ need derating use (- 0.15W/℃ for 3W, - 0.25W/℃ for 5W, - 0.5W/℃ for 10W, - 0.75W/℃ for 15W),the 20-30W more than 55 ℃ need derating use(- 0.6W/℃ for 20W, - 0.86W/℃ for 30W), 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 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:Millitary level

Product Program

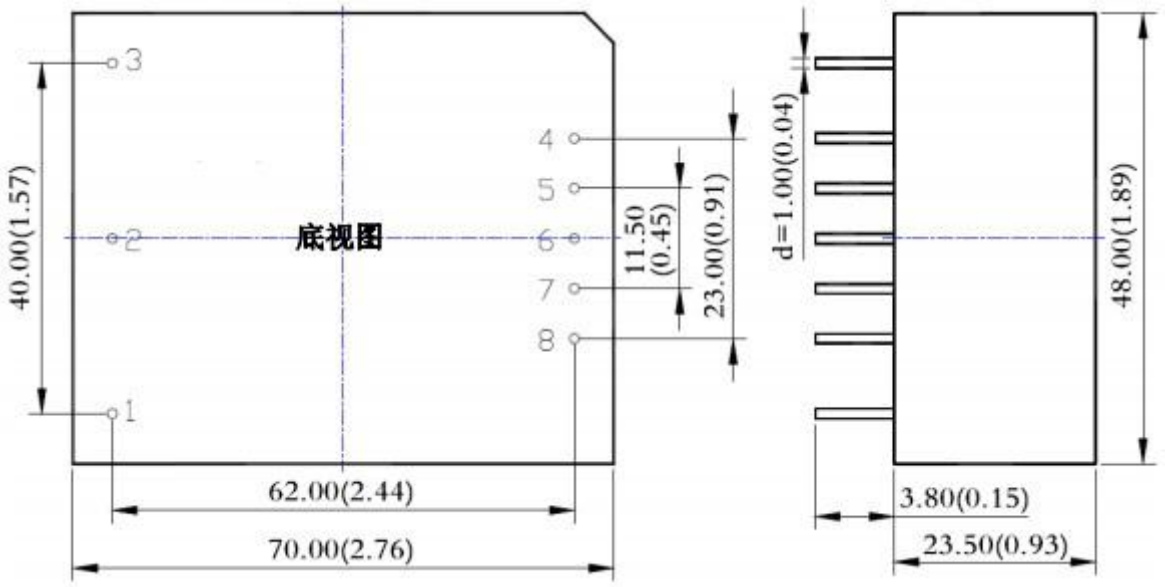
PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
LA25-220S05	220V(85~265VAC) 120~380VDC	5V	5000mA				
LA25-220S09		9V	2778mA				
LA25-220S12		12V	2100mA				
LA25-220S15		15V	1667mA				
LA25-220S24		24V	1000mA				
LA25-220D05		+5V	2500mA	-5V	2500mA		
LA25-220D12		+12V	1400mA	-12V	1400mA		
LA25-220D15		+15V	833mA	-15V	833mA		

LA25-220D24		+24V	520mA	-24V	520mA		
LA25-220T5-12I		+5V	1200mA	+12	100mA	-12	100mA

*NOTE:

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

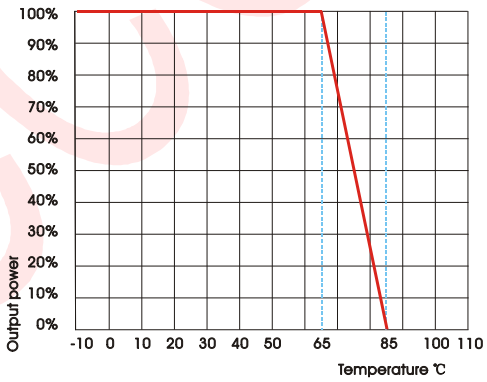
Mechanical Dimension



BOTTON VIEW LATERAL VIEW

UNIT:mm(inch)

Temperature Curve



Mechanical Data

WATT	L x W x H	Package
25W	70.0 x 48.0 x 23.5mm(2.76*1.89*0.93inch)	

Pin Assignment

PIN	1	2	3	4	5	6	7	8		
Single O/P	FG	AC(N)	AC(L)	+Vo	NP	NP	NP	GND		
Dual O/P	FG	AC(N)	AC(L)	+Vo1	NP	COM	NP	-Vo2		

Dual Isolation O/P	FG	AC(N)	AC(L)	+Vo2	GND2	NP	+Vo1	GND1		
Triple O/P	FG	AC(N)	AC(L)	+Vo2	COM	-Vo2	+Vo1	GND1		
Note：The power modules such as the definition of the pin does not match with the hand book,please refer to the actual item.										