



## ECCO Electronics Technology Co.,Ltd

**500W AC/DC converter**

**LA500T-XXSXX series**

### Typical Performance

### FEATURES

- 175~275VAC Input voltage range
- Typical Efficiency :85%
- Switching frequency: 100 KHz
- Overcurrent/over voltage protection,under voltage protection,short circuit protection
- With PFC function
- Input-output isolated
- PCB board in-line type installs
- Working temp:-40~+85°C



3-Years Product Warranty

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

<b>Input Feature</b>	<b>Min</b>	<b>Nom</b>	<b>Max</b>	<b>Notes</b>
Input voltage( Vac)	175(200Vdc)	220	275(380Vdc)	N
Frequency range (Hz)	47		440	
Remote ON/OFF				

### Output Feature

Voltage accuracy			±1.0%
Line regulation	Nominal load,full voltage input range		±0.1%
Load regulation	Nominal input voltage,20% ~ 100% Nominal load		±0.5%
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			-40°C ~ +85°C

Storage temperature			-40°C ~ +105°C
Max case temperature			+90°C
Relative humidity			10%~90%
Case material			Metal case
Isolation voltage		Input-Output	1500Vac/1min
		Input-Case	1500Vac/1min
		Output-Case	500Vac/1min
Temperature coefficient			≤±0.03%/°C
Cooling			Natural convection
MTBF	BELLCORE TR332, (25°C)		2X10 <sup>5</sup> Hrs

#### NOTE:

(1)The module working environment temperature more than 55 °C need derating use (- 3W/°C), but the max shell temperature shall not be more than 90 °C.

(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

#### Product Nomination Method

example	L A 500 T - 220 S 05 J ① ② ③ ④ ⑤ ⑥ ⑦		
①	L:Wide input voltage range: AC85-265V N:Narrow input voltage range: AC165-265V	⑤	Normal input voltage
②	Power adaptation mode: A (AC-DC)	⑥	S=Single route output, D=Dual route output, T=Triple route output, Q=Quadruple output
③	Output power(W)	⑦	output voltage
④	Full brick package		J:Millitary level

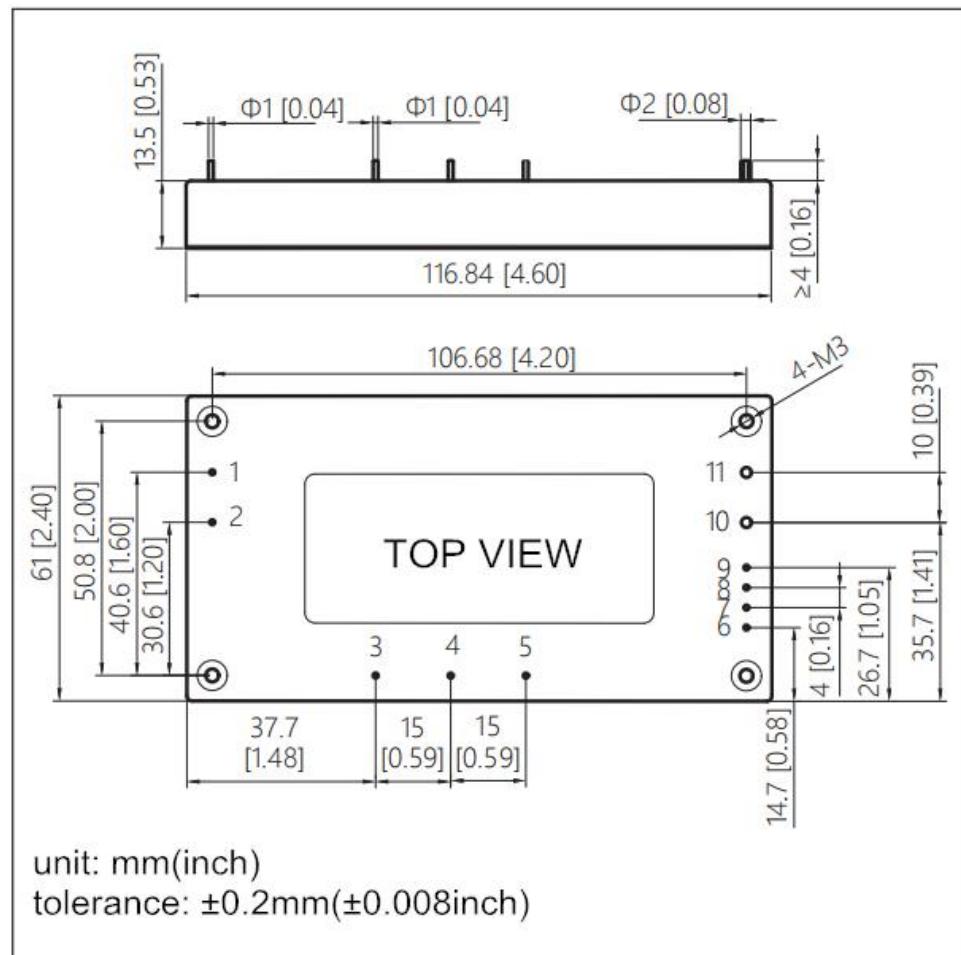
#### Product Program

PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	A	V	A	V	A
LA500T-220S12	220V(165~265VAC) 200~380VDC	12V	41.7A				
LA500T-220S15		15V	33.3A				
LA500T-220S24		24V	20.8A				
LA500T-220S28		28V	17.9A				
LA500T-220S48		48V	10.4A				

#### \*NOTE:

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

## Mechanical Dimension



## Pin Assignment

PIN	1	2	3	4	5	6	7	8	9	10
Single O/P	N	L	R	+BC	-BC	NC	TRIM	+S	-S	+Vo
	11	12	13							
	-Vo									

## Mechanical Data

WATT	L x W x H	Packing No.
500W	116.84*61.0*13.5mm(4.6*2.4*0.53inch)	

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