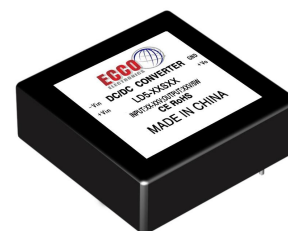


Typical Performance

FEATURES

- Wide Input voltage range (2:1)
- Typical Efficiency:80%
- Switching frequency: 300KHz
- Short circuit protection,Self-furbish
- I/O isolation 1500VDC
- PCB Board in-line type installs
- Metal case, Low Output Ripple



3-Years Product Warranty

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

Input Feature	Min	Nom	Max	Note
Input voltage(Vdc)	72	110	144	W 2:1
Remote ON/OFF				Non
Under voltage protect				

Output Feature

Voltage accuracy		Vo1,Vo2	±1.0%, ±3.0%
Line regulation	Nominal Load,full voltage input range	Vo1,Vo2	±0.2%, ±1.5%
Load regulation	Nominal Input Voltage,20% ~ 100%	Vo1,Vo2	±0.5%, ±3.0%
Ripple and noise	20MHz BM full load Vo≤5.0V, ≤50mVp-p; Vo≥48V, ≤180mVp-p; Other, ≤100mVp-p;test by 20M oscillograph		
Peak Deviation	25% Rated Load Vary	ΔVo1/ Vo1	≤±5.0%
Dynamic Response Setting Time			≤200us

General Feature

Efficiency	Normal input , full load		80% typical
Switching frequency			300KHz typical

Operating temperature	Free air	Industrial level	-25℃ ~ +55℃
Storage temperature			-40℃ ~ +105℃
Max case temperature			+90℃
Relative humidity			10%~90%
Isolation Voltage		Input-Output	1000VDC
		Input-Case	1500VDC
		Output-Case	500VDC
Isolation Resistance			10MΩ
Temperature Coefficient			≤±0.02%/℃
Cooling			Natural Convection
case material			Metal case
MTBF	BELLCORE TR332, (25℃)		2X10 ⁵ Hrs

NOTE:

(1)The module working environment temperature more than 55 ℃ 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

exam ple	L D 5 - 48 S 05 I ① ② ③ ④ ⑤ ⑥ ⑦						
①	L:Wide voltage input			⑥	output voltage		
②	Power adaptation mode: D（DC-DC）			⑦			
③	Output power(W)				I: Dual Route output Isolate		
④	Normal input voltage						
⑤	S=Single route output, D=Dual route output, T=Triple route output, Q=Quadruple output						

Product Program

PART #	Input voltage range	Output voltage / current						
		VO1		VO2		VO3		
		V	mA	V	mA	V	mA	
LD5-110S3V3B	110V(72~114V)	3.3V	1000mA					
LD5-110S05B		5V	1000mA					
LD5-110S09B		9V	550mA					

LD5-110S12B		12V	410mA					
LD5-110S15B		15V	330mA					
LD5-110S18B		18V	278mA					
LD5-110S24B		24V	210mA					
LD5-110S28B		28V	179mA					
LD5-110S48B		48V	104mA					
LD5-110D3V3B		+3.3V	500 mA	-3.3V	500 mA			
LD5-110D05B		+5V	500 mA	-5V	500 mA			
LD5-110D09B		+9V	275 mA	-9V	275 mA			
LD5-110D12B		+12V	205 mA	-12V	205 mA			
LD5-110D15B		+15V	165 mA	-15V	165 mA			
LD5-110D24B		+24V	100 mA	-24V	100 mA			

*NOTE:

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

Mechanical Dimension



Figure 1 is a line graph showing Output power (%) versus Temperature (°C) for two levels: Industrial level (green line) and Military level (red line). The x-axis represents Temperature in degrees Celsius, ranging from -40 to 105. The y-axis represents Output power in percentage, ranging from 0% to 100%. The Industrial level maintains 100% output power from -20°C to 55°C, then drops linearly to 0% at 95°C. The Military level maintains 100% output power from 55°C to 85°C, then drops linearly to 0% at 105°C. Vertical dashed blue lines indicate the temperature limits for each level.

Temperature (°C)	Industrial level Output power (%)	Military level Output power (%)
-20	100	-
55	100	100
85	~44.4	100
95	0	~88.9
105	-	0

WATT	L x W x H	Packing No.
5W	25.40 x 25.40 x 10.16mm(1*1*0.4inch)	B

PIN	1	2	3	4	5						
Single O/P	+Vin	-Vin	GND	NP	Vo1						

Dual O/P	+Vin	-Vin	-Vout2	COM	+Vout1						
*Note: The power modules such as the definition of the pin does not match with the hand book,please refer to the actual item.											