

Typical Performance

FEATURES

- Wide Input voltage range (2:1/4:1)
- Typical Efficiency:80%
- Switching frequency: 300KHz
- Short circuit protection,Self-furbish
- Input-output isolate 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°C , Rated resistant load unless other wispecified

Input Feature	Min	Nom	Max	Notes
Input voltage(Vdc)	9(start voltage 9.5V)	12	18	W 2:1
	18	24	36	W 2:1
	36	48	72	W 2:1
	9(start voltage 9.5V)	18	36	W 4:1
	18	36	72	W 4:1
Remote ON/OFF				Non

Output Feature

Voltage accuracy		Vo1;Vo2,Vo3	±1.0%, ±3.0%
Line regulation	Nominal Load,full voltage input range	Vo1;Vo2,Vo3	±0.2%, ±1.5%
Load regulation	Nominal Input Voltage,20% ~ 100% Nominal Load	Vo1;Vo2,Vo3	±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		
Voltage adjust	Standard output voltage	TRIM	±10%(adjustable)
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%
case material			Metal case
Isolation Voltage		Input-Output	1500VDC
		Input-Case	1500VDC
		Output-Case	500VDC
Isolation Resistance			10MΩ
Temperature Coefficient			≤±0.02%/℃
Cooling			Natural Convection
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 u F/A of the output capacitance , the current is rated

Product Nomination Method

example	L D 5 - 48 S 05 I						
	①	②	③	④	⑤	⑥	⑦
①	L:Wide voltage input: 2: 1					⑥	output voltage
②	Power adaptation mode: D (DC-DC)					⑦	I: Dual Route output Isolate
③	Output power(W)						W: Super Wide input voltage
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	A	V	A	V	A

LD50-12S05B	12V(9~18V)	5V	10A				
LD50-12S12B		12V	4.2A				
LD50-12S15B		15V	3.3A				
LD50-12S24B		24V	2.1A				
LD50-12S28B		28V	1.78A				
LD50-12D05B		+5V	5A	-5V	5A		
LD50-12D12B		+12V	2.1A	-12V	2.1A		
LD50-12D15B		+15V	1.67A	-15V	1.67A		
LD50-18S05B	18V(9~36V)	5V	10A				
LD50-18S12B		12V	4.2A				
LD50-18S15B		15V	3.3A				
LD50-18S24B		24V	2.1A				
LD50-18S28B		28V	1.78A				
LD50-18D05B		+5V	5A	-5V	5A		
LD50-18D12B		+12V	2.1A	-12V	2.1A		
LD50-18D15B		+15V	1.67A	-15V	1.67A		
LD50-24S05B	24V(18~36V)	5V	10A				
LD50-24S12B		12V	4.2A				
LD50-24S15B		15V	3.3A				
LD50-24S24B		24V	2.1A				
LD50-24S28B		28V	1.78A				
LD50-24D05B		+5V	5A	-5V	5A		
LD50-24D12B		+12V	2.1A	-12V	2.1A		
LD50-24D15B		+15V	1.67A	-15V	1.67A		
LD50-36S05B	36V (18~72V)	5V	10A				
LD50-36S12B		12V	4.2A				
LD50-36S15B		15V	3.3A				
LD50-36S24B		24V	2.1A				
LD50-36S28B		28V	1.78A				
LD50-36D05B		+5V	5A	-5V	5A		
LD50-36D12B		+12V	2.1A	-12V	2.1A		

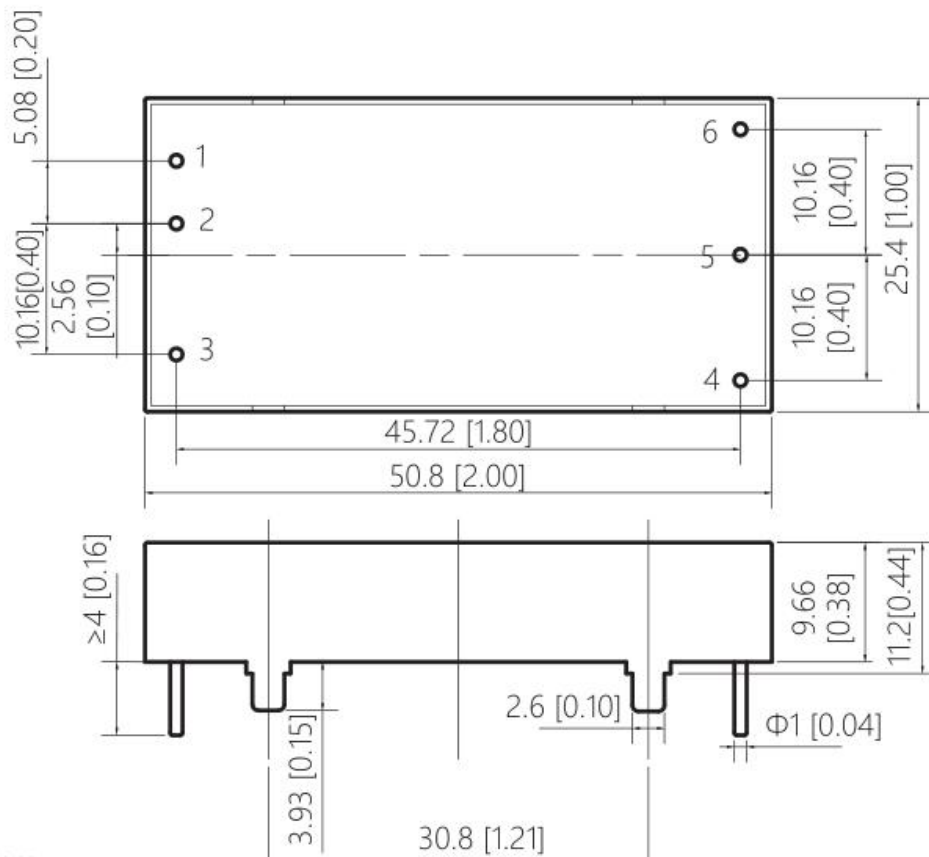
LD50-36D15B	48V (36~72V)	+15V	1.67A	-15V	1.67A		
LD50-36S05B		5V	10A				
LD50-36S12B		12V	4.2A				
LD50-36S15B		15V	3.3A				
LD50-36S24B		24V	2.1A				
LD50-36S28B		28V	1.78A				
LD50-36D05B		+5V	5A	-5V	5A		
LD50-36D12B		+12V	2.1A	-12V	2.1A		
LD50-36D15B		+15V	1.67A	-15V	1.67A		

NOTE:

(1) This series, if the nominal input is 12V, the module does not support long time short circuit protection, short time should be controlled within 20 S.

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

Mechanical Dimension



BOTTOM VIEW

UNIT:mm(inch)

Pin Assignment

PIN	1	2	3	4	5						
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Single O/P	+Vin	-Vin	GND	NP	Vo					
Dual O/P	+Vin	-Vin	-Vo2	COM	+Vo1					

Mechanical Data

WATT	L x W x H	Packing No.
50W	50.80*25.40*11.2mm(2*1*0.44inch)	C

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

