

Typical Performance

FEATURES

- Wide Input voltage range (2:1/4:1)
- Typical Efficiency:80%
- Switching frequency: 300KHz
- Output Short Circuit Protection,Self-furbish,Over Current Protection
- Input-output isolate 1500VDC
- PCB Board in-line type installs
- Metal Case



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
	9	18	36	W 4:1
	36	48	72	W 2:1
REMOTE(ON/OFF)	ON		Open Circuit or High level(8~+Vin)	
	OFF		Connect to FG or Low level(0~0.4V)	

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			80% typical
Switching Frequency			300KHz
Operating temperature	Free air	military 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 output current.

Product Nomination Method

example	L D 25 - 48 S 05 I ① ② ③ ④ ⑤ ⑥ ⑦						
①	Wide input voltage: 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	mA	V	mA	V	mA
LD40-12S05E	12V(9~18V)	5V	8000mA				

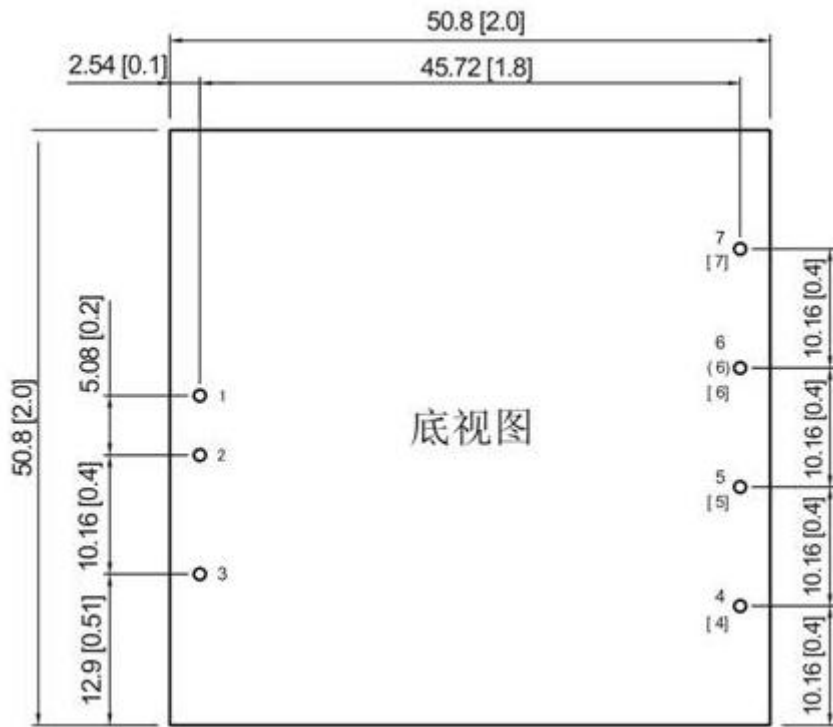
LD40-12S12E		12V	3330mA				
LD40-12S15E		15V	2670mA				
LD40-12S24E		24V	1670mA				
LD40-12D05E		+5V	4000mA	-5V	4000mA		
LD40-12D12E		+12V	1670mA	-12V	1670mA		
LD40-12D15E		+15V	1330mA	-15V	1330mA		
LD40-18S05E	18V(9~36V)	5V	8000mA				
LD40-18S12E		12V	3330mA				
LD40-18S15E		15V	2670mA				
LD40-18S24E		24V	1670mA				
LD40-24S05E	24V(18~36V)	5V	8000mA				
LD40-24S12E		12V	3330mA				
LD40-24S15E		15V	2670mA				
LD40-24S24E		24V	1670mA				
LD40-24D05E		+5V	4000mA	-5V	4000mA		
LD40-24D12E		+12V	1670mA	-12V	1670mA		
LD40-24D15E	+15V	1330mA	-15V	1330mA			
LD40-48S05E	48V(36~72V)	5V	8000mA				
LD40-48S12E		12V	3330mA				
LD40-48S15E		15V	2670mA				
LD40-48S24E		24V	1670mA				
LD40-48D05E		+5V	4000mA	-5V	4000mA		
LD40-48D12E		+12V	1670mA	-12V	1670mA		
LD40-48D15E		+15V	1330mA	-15V	1330mA		

***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

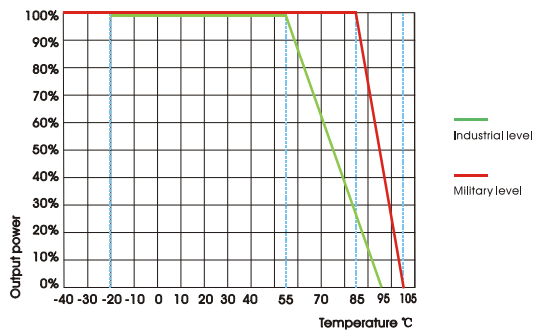


LATERAL VIEW

Unit: mm (inch)

tolerance: $\pm 0.2\text{mm}$ ($\pm 0.008\text{inch}$)

Temperature Curve



Mechanical Data

WATT	L x W x H	Packing No.
40W	50.80*50.80*12.70mm(2*2*0.5inch)	E

Pin Assignment

PIN	1	2	3	4	[4]	5	[5]	6	(6)	[6]	7	[7]
Single O/P	+Vin	-Vin	REM	TRIM	NP	-Vout1	NP	+Vout	NP	NP	NP	NP
Dual O/P	+Vin	-Vin	REM	TRIM	NP	-Vout	NP	NP	COM	NP	+Vout	NP
Triple O/P	+Vin	-Vin	REM	-Vout3	NP	NP	COM	NP	NP	+Vout1	NP	+Vout2

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