

Typical Performance

FEATURES

- Wide Input voltage range (2:1、4:1)
- Typical Efficiency:85%
- Switching frequency: 300KHz ± 30 KHz
- Short Circuit Protection,Self-furbish
- 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 wisespecified

Input Feature	Min	Nom	Max	Notes
Input voltage(Vdc)	9(start violtage 9.5V)	12	18	W 2:1
	18	24	36	W 2:1
	36	48	72	W 2:1
	72	110	145	W 2:1
	9(start violtage 9.5V)	18	36	W 4:1
	18	36	72	W 4:1
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	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
Insulation Resistance			10MΩ
Temperature Coefficient			≤±0.02%/℃
Cooling			Natural Convection
MTBF	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 voltage input: 2: 1			⑥	output voltage		
②	Power adaptation mode: D (DC-DC)			⑦	G:input-output Isolate		
③	Output power(W)				I: Dual Route output Isolate		
④	Normal input voltage				W: Super Wide 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

LD40-12S05D	12V(9~18V)	5V	8000 mA				
LD40-12S12D		12V	3300 mA				
LD40-12S15D		15V	2670 mA				
LD40-12S18D		18V	2222mA				
LD40-12S24D		24V	1660 mA				
LD40-12S28D		28V	1429mA				
LD40-12S48D		48V	833mA				
LD40-12D05D		+5V	4000 mA	-5V	4000 mA		
LD40-12D12D		+12V	1660 mA	-12V	1660 mA		
LD40-18S05D		18V(9~36V)	5V	8000 mA			
LD40-18S12D	12V		3300 mA				
LD40-18S15D	15V		2670 mA				
LD40-18S18D	18V		2222mA				
LD40-18S24D	24V		1660 mA				
LD40-18S28D	28V		1429mA				
LD40-18S48D	48V		833mA				
LD40-18D05D	+5V		4000 mA	-5V	4000 mA		
LD40-18D12D	+12V		1660 mA	-12V	1660 mA		
LD40-24S05D	24V(18~36V)		5V	8000 mA			
LD40-24S12D		12V	3300 mA				
LD40-24S15D		15V	2670 mA				
LD40-24S18D		18V	2222mA				
LD40-24S24D		24V	1660 mA				
LD40-24S28D		28V	1429mA				
LD40-24S48D		48V	833mA				
LD40-24D05D		+5V	4000 mA	-5V	4000 mA		
LD40-24D12D		+12V	1660 mA	-12V	1660 mA		
LD40-36S05D		36V(18~72V)	5V	8000 mA			
LD40-36S12D	12V		3300 mA				
LD40-36S15D	15V		2670 mA				
LD40-36S18D	18V		2222mA				
LD40-36S24D	24V		1660 mA				

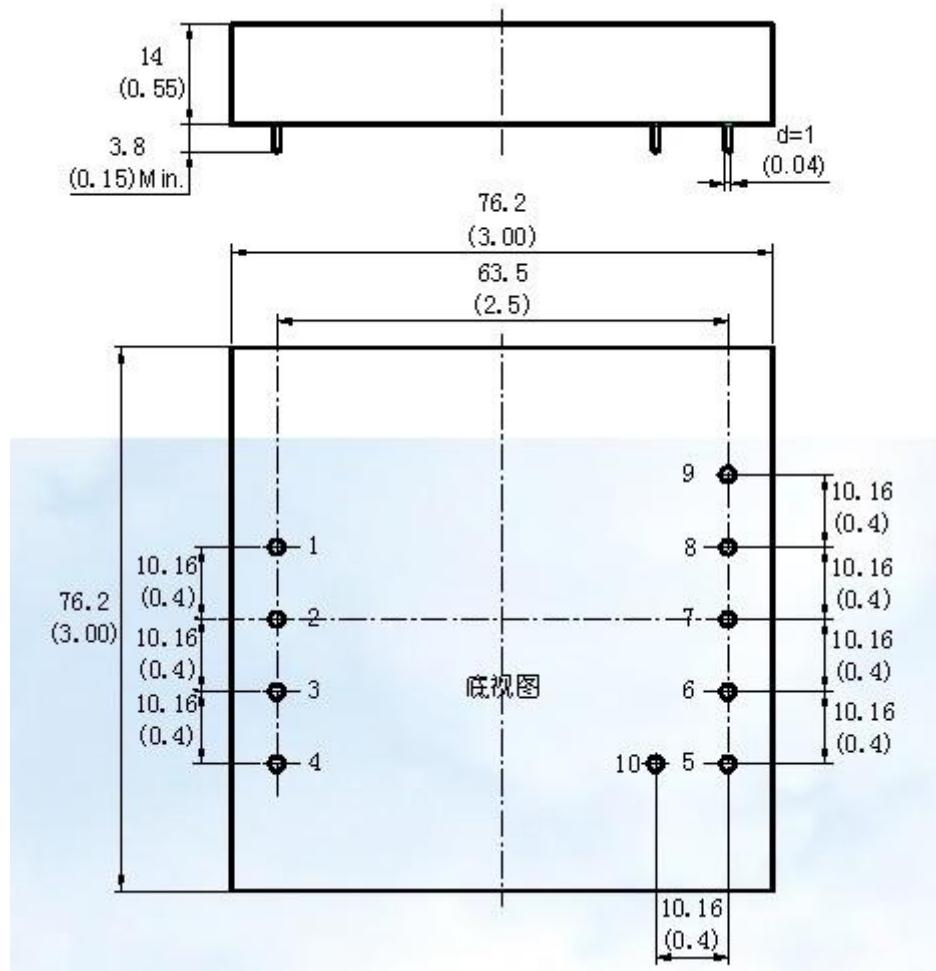
LD40-36S28D		28V	1429mA					
LD40-36S48D		48V	833mA					
LD40-36D05D		+5V	4000 mA	-5V	4000 mA			
LD40-36D12D		+12V	1660 mA	-12V	1660 mA			
LD40-48S05D	48V(36~72V)	5V	8000 mA					
LD40-48S12D		12V	3300 mA					
LD40-48S15D		15V	2670 mA					
LD40-48S18D		18V	2222mA					
LD40-48S24D		24V	1660 mA					
LD40-48S28D		28V	1429mA					
LD40-48S48D		48V	833mA					
LD40-48D05D		+5V	4000 mA	-5V	4000 mA			
LD40-48D12D		+12V	1660 mA	-12V	1660 mA			
LD40-110S05D		110V(72~144V)	5V	8000 mA				
LD40-110S12D			12V	3300 mA				
LD40-110S15D			15V	2670 mA				
LD40-110S18D	18V		2222mA					
LD40-110S24D	24V		1660 mA					
LD40-110S28D	28V		1429mA					
LD40-110S48D	48V		833mA					
LD40-110D05D	+5V		4000 mA	-5V	4000 mA			
LD40-110D12D	+12V		1660 mA	-12V	1660 mA			

***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.

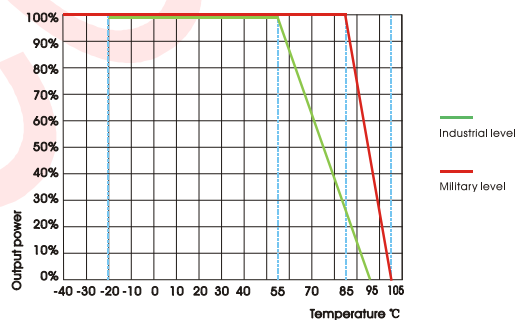
Mechanical Dimension



BOTTOM VIEW

UNIT:mm(inch)

Temperature Curve



Mechanical Data

WATT	L x W x H	Packing No.
40W	76.20*76.20*12.70mm(3*3*0.5inch)	D

Pin Assignment

PIN	1	2	3	4	5	6	7	8	9	10
Single O/P	-Vin	+Vin	NP	REM	TRIM	Vo1	GND	NC	NC	NP

Dual O/P	-Vin	+Vin	NP	REM	TRIM	+Vo1	COM	-Vo2	NC	NP
Triple O/P	-Vin	+Vin	NP	REM	TRIM	+Vo1	COM	-Vo2	Vo3	NP

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

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