

Typical Performance

FEATURES

- Wide Input voltage range (2:1)
- Typical Efficiency:85%
- Switching frequency: 300KHz
- Overcurrent/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℃, Rated resistant load unless other wisespecified

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
	72	110	144	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	Normal input , full load		85% typical
Switching frequency			300KHz typical
Operating temperature	Free air	Industrial level	-25℃ ~ +55℃
Storage temperature			-40℃ ~ +105℃
Max case temperature			+95℃
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

LD75-12S05B	12V(9~18V)	5V	15000mA				
LD75-12S12B		12V	6250mA				
LD75-12S15B		15V	5000mA				
LD75-12S18B		18V	4167mA				
LD75-12S24B		24V	3125mA				
LD75-12S28B		28V	2679mA				
LD75-12S48B		48V	1563mA				
LD75-12D05B		+5V	7500mA	-5V	7500mA		
LD75-12D12B		+12V	3125mA	-12V	3125mA		
LD75-24S05B	24V(18~36V)	5V	15000mA				
LD75-24S12B		12V	6250mA				
LD75-24S15B		15V	5000mA				
LD75-24S18B		18V	4167mA				
LD75-24S24B		24V	3125mA				
LD75-24S28B		28V	2679mA				
LD75-24S48B		48V	1563mA				
LD75-24D05B		+5V	7500mA	-5V	7500mA		
LD75-24D12B		+12V	3125mA	-12V	3125mA		
LD75-48S05B	48V(36~72V)	5V	15000mA				
LD75-48S12B		12V	6250mA				
LD75-48S15B		15V	5000mA				
LD75-48S18B		18V	4167mA				
LD75-48S24B		24V	3125mA				
LD75-48S28B		28V	2679mA				
LD75-48S48B		48V	1563mA				
LD75-48D05B		+5V	7500mA	-5V	7500mA		
LD75-48D12B		+12V	3125mA	-12V	3125mA		
LD75-110S05B	110V(72~144V)	5V	15000mA				
LD75-110S12B		12V	6250mA				
LD75-110S15B		15V	5000mA				
LD75-110S18B		18V	4167mA				
LD75-110S24B		24V	3125mA				

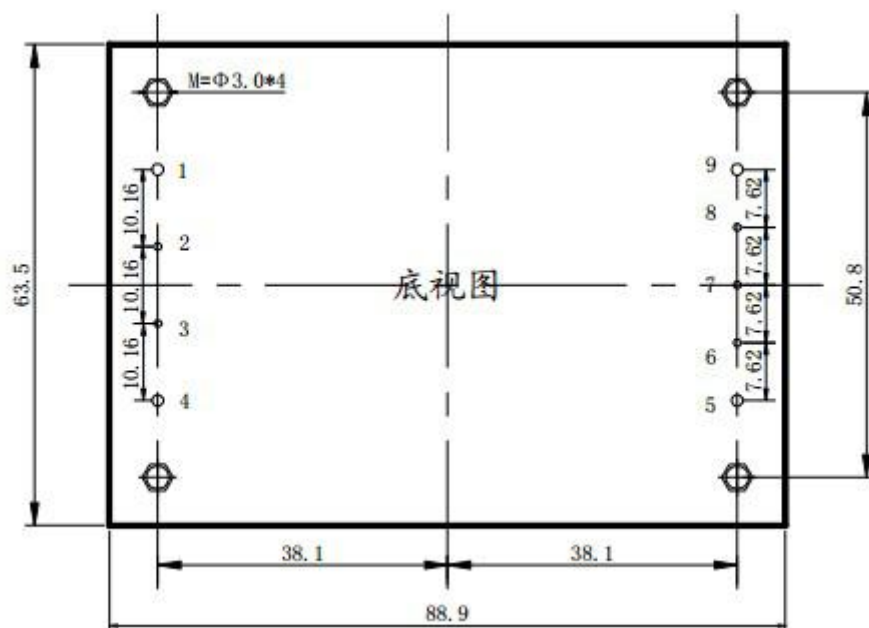
LD75-110S28B		28V	2679mA				
LD75-110S48B		48V	1563mA				
LD75-110D05B		+5V	7500mA	-5V	7500mA		
LD75-110D12B		+12V	3125mA	-12V	3125mA		

***NOTE:**

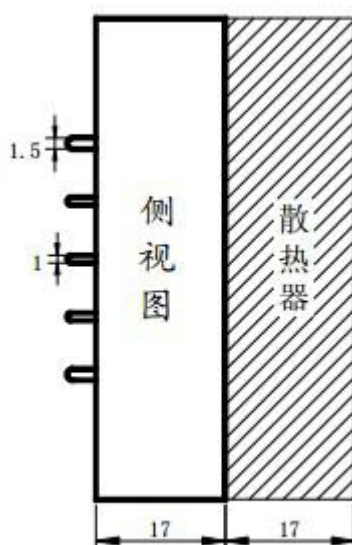
(1) This series, if the nominal input is 12V, the module does not support long time short circuit protection, short time should be controlled within 20 S.

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

Mechanical Dimension



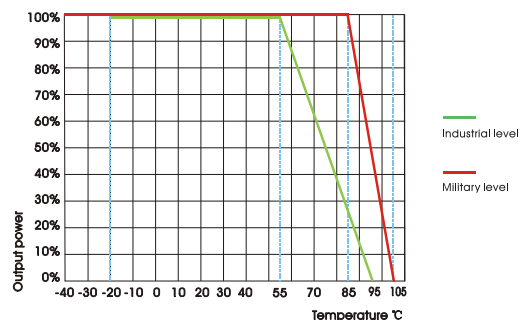
BOTTOM VIEW



LATERAL VIEW

UNIT:mm

Temperature Curve



Mechanical Data

WATT	L x W x H	Packing No.
75W	88.9*63.5*17mm	B

Pin Assignment

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

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