

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



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	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			≤200mS

General Feature

Efficiency		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 <sup>5</sup> 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 50 - 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	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
LD100-12S05	12V(9~18V)	5V	20A				
LD100-12S12		12V	8.3A				
LD100-12S15		15V	6.6A				

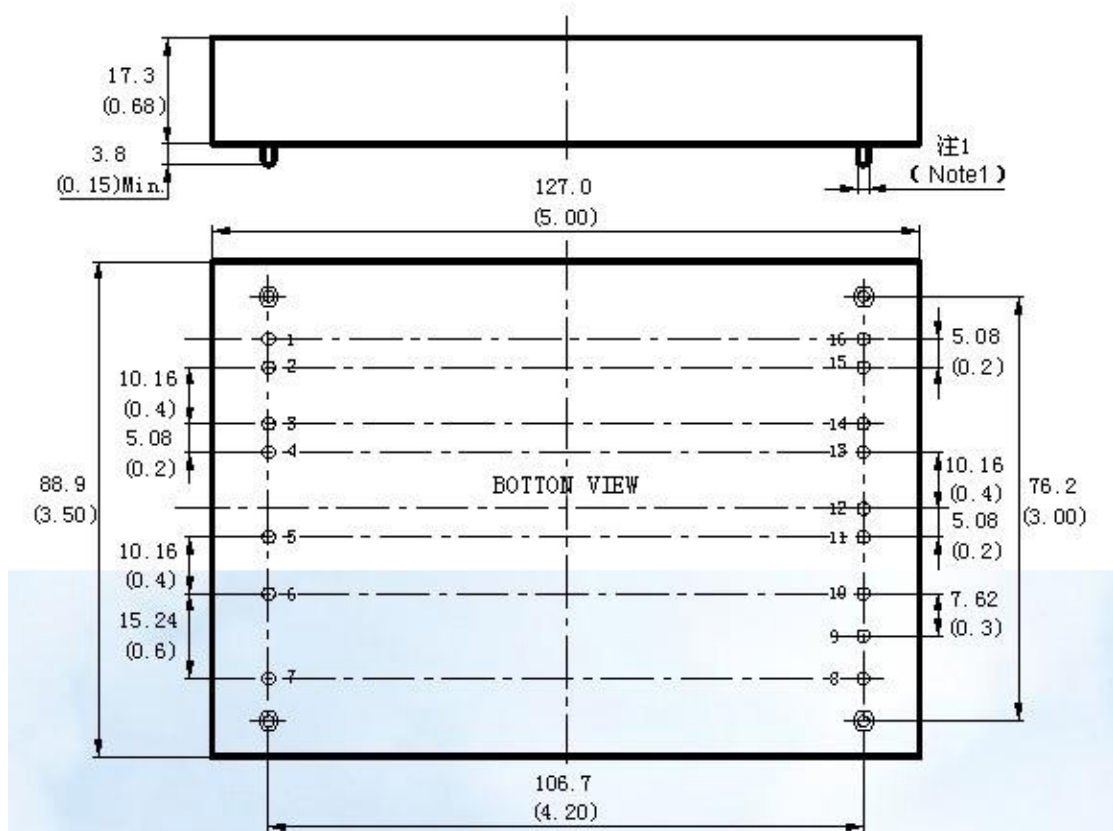
LD100-12S18		18V	5.56A				
LD100-12S24		24V	4.2A				
LD100-12S28		28V	3.57A				
LD100-12S48		48V	2.08A				
LD100-24S05	24V(18~36V)	5V	20A				
LD100-24S12		12V	8.3A				
LD100-24S15		15V	6.6A				
LD100-24S18		18V	5.56A				
LD100-24S24		24V	4.2A				
LD100-24S28		28V	3.57A				
LD100-24S48		48V	2.08A				
LD100-48S05		48V(36~72V)	5V	20A			
LD100-48S12	12V		8.3A				
LD100-48S15	15V		6.6A				
LD100-48S18	18V		5.56A				
LD100-48S24	24V		4.2A				
LD100-48S28	28V		3.57A				
LD100-48S48	48V		2.08A				
LD100-110S05	110V(72~144V)	5V	20A				
LD100-110S12		12V	8.3A				
LD100-110S15		15V	6.6A				
LD100-110S18		18V	5.56A				
LD100-110S24		24V	4.2A				
LD100-110S28		28V	3.57A				
LD100-110S48		48V	2.08A				

**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.

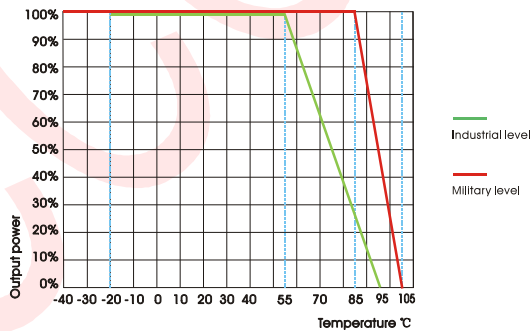
**Mechanical Dimension**



**NOTED**

- (1) For the pin(1,2,3,4,11,12,13,14,15,16),its diameter is 1.5mm(0.06inch),for the pin(5,6,7,8,9,10),its diameter is 1mm(0.04inch)
- (2) The heatsink's height is 12mm

**Temperature Curve**



**Mechanical Data**

WATT	L x W x H	Packing No.
100W	127.00 x 88.90 x 17.20mm(5*3.5*0.68inch)	

**Pin Assignment**

PIN	1:2	3:4	5:6	7	8	9	10	11:12	13:14	15:16
Single O/P	+Vin	-Vin	FG	CNT	-S	TRIM	+S	NP	GND	Vo1
Dual O/P	+Vin	-Vin	FG	CNT	-S	TRIM	+S	Vo2	COM	Vo1
Triple O/P	+Vin	-Vin	FG	CNT	Vo3	COM	Vo2	NP	GND	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.

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