

**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 wisespecified

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
LD150-24S05	24V(18~36V)	5V	30A				
LD150-24S12		12V	12.5A				
LD150-24S15		15V	10A				

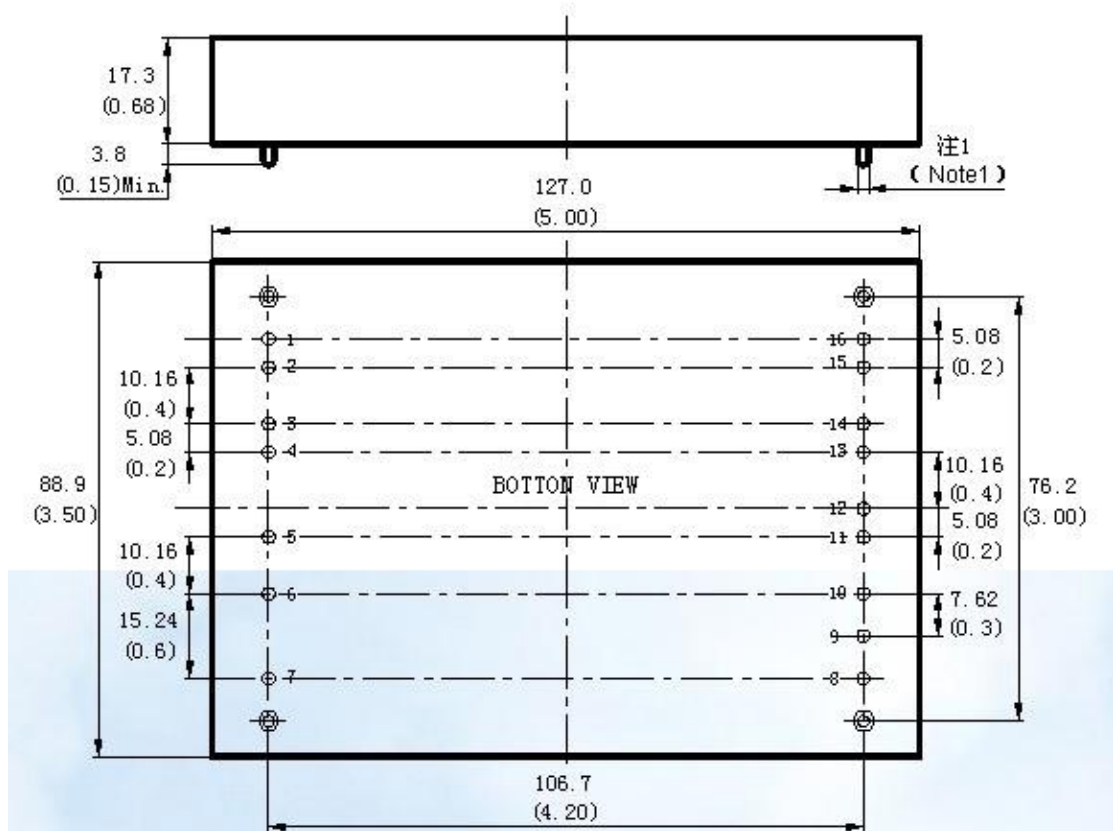
LD150-24S18		18V	8.33A				
LD150-24S24		24V	6.25A				
LD150-24S28		28V	5.36A				
LD150-24S48		48V	3.13A				
LD150-48S05	48V(36~72V)	5V	30A				
LD150-48S12		12V	12.5A				
LD150-48S15		15V	10A				
LD150-48S18		18V	8.33A				
LD150-48S24		24V	6.25A				
LD150-48S28		28V	5.36A				
LD150-48S48		48V	3.13A				
LD150-110S05		110V(72~144V)	5V	30A			
LD150-110S12	12V		12.5A				
LD150-48S15	15V		10A				
LD150-48S18	18V		8.33A				
LD150-110S24	24V		6.25A				
LD150-110S28	28V		5.36A				
LD150-110S48	48V		3.13A				

**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.

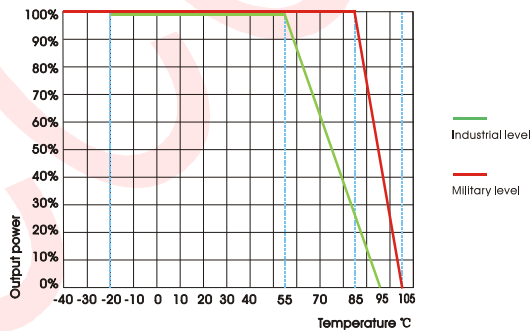
### **Mechanical Dimension**



**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.
150W	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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