

## THE LD 05-23 BXXR 2-M SERIES

### -----STANDARD PACKAGE AC-DC MODULE POWER SUPPLY 5W



#### PRODUCT FEATURES

- Wide voltage input range 85-305 VAC (100-430 VDC)
- Operating temperature: -40°C ~ + 85°C
- Complete protection function (short-circuit protection, self-recovery, etc.)
- High efficiency, high reliability
- Small volume, plastic-case flame-retardant packaging
- Industrial-grade product technology design

#### applied range

Wireless network, telecommunications / data communication, power system, industrial control system, measuring instruments, intelligent field and other power systems. It is suitable for the large fluctuation of input range, power isolation, small cloth space design, and realize the product function modularization,

#### PRODUCT MODEL

model	output voltage Vo	output Io	productiveness (TYP)
LD05-23B05R2-ML	5V	1000mA	74%
LD05-23B12R2-ML	12V	420mA	78%
LD05-23B15R2-ML	15V	333mA	79%
LD05-23B24R2-ML	24V	210mA	80%

\* IF YOU HAVE OTHER SPECIFICATIONS AND MODELS, YOU CAN CONTACT US DIRECTLY.

#### INPUT CHARACTERISTICS

input voltage range	85~305VAC (100~430VDC)
incoming frequency	47~63Hz
input currenton	125mA (TYP) @115VAc 80mA (TYP)@ 230VAc
External fuse (recommended value)	1A / 300V slow break

#### OUTPUT CHARACTERISTIC

Output voltage stabilization accuracy	±2%
Source effect	±0.5% (typ)

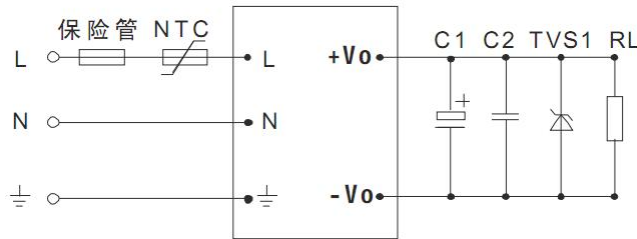
Load adjustment rate (10% -100%)	±1% (typ)
Minimum load	10%
Output ripple + noise (peak-peak)	100mV (typ) (20MHz Bandwidth)
short-circuit protection	Long-term short-circuit, self-recovery
Output overpressure protection	The 1.1 times

## GENERAL CHARACTERISTIC

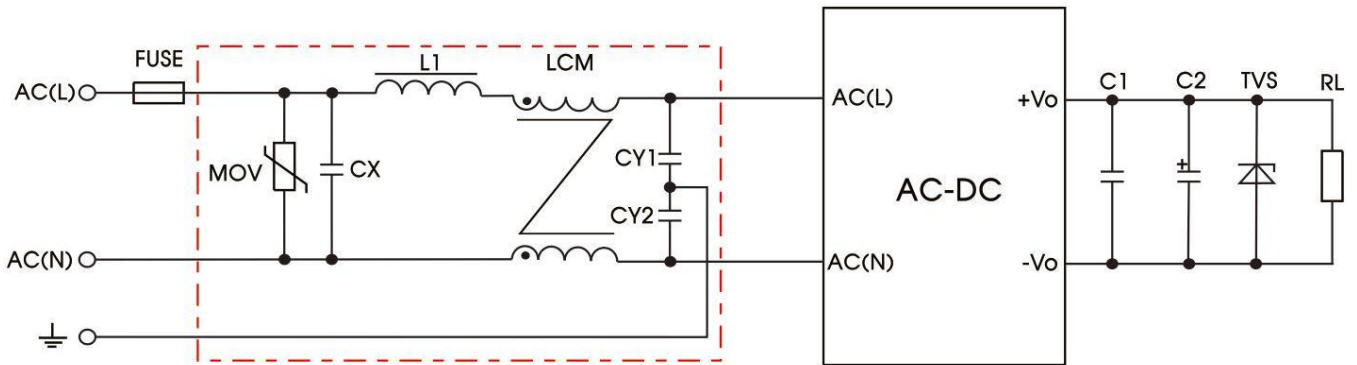
temperature characteristic	working temperature	-40°C~+85°C
	Power reduction	3.75% / °C ,
	Storage temperature	-40°C~+90°C
	case temperature	+90°C max
Power drop time		40ms (typ) / at Vin:320Vdc
humidity		85%RH (max)
Warm drift		0.02%/°C
switching frequency		65kHz (typ)
Isolation voltage	Input-Output	4000Vac/1Min
leakage current		<5mA RMS typ. 230VAC/50Hz
* Electromagnetic-compatible discharge	electrostatic	IEC/EN 61000-4-2 level 3 6kV/8kV IEC/EN 61000-4-3
* RF radiation immunity		IEC/EN 61000-4-4 level 3 2 kV
* Electric fast transient pulse population		IEC/EN 61000-4-5 level 3 1kV/2kV
* surge		
* Transmission / radiation		EN55022, level A
security classification		CLASS I
Shell grade		Flame-retardant plastic UL 94 V-0
install		PCB
MTBF		>200,000h @25°C

- Note: 1. Note the \* test items, and the peripheral EMC recommended circuit should be added;  
 2. The data listed above were measured under TA=25°C and humidity <75%, except as otherwise noted.

Typical application



The EMC is the recommended circuit



device	Recommended value
MOV	14D471
CY1、CY2	1000pF/400VAC
CX	0.1uF/275VAC
LCM	>10mH
L1	4.7uH/2A
FUZE	1A / 300V, slow break

INPUT VOLTAGE AND LOAD RELATIONSHIP DIAGRAM

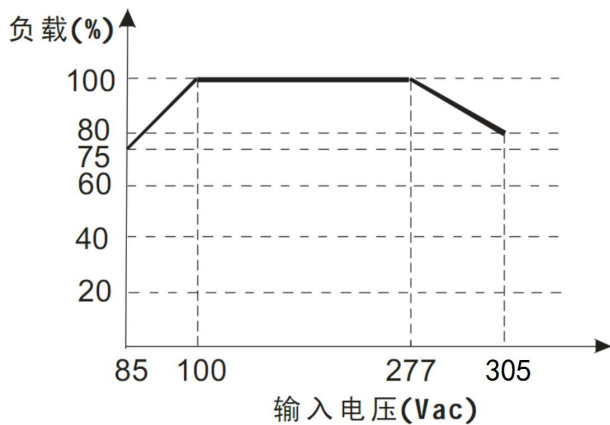
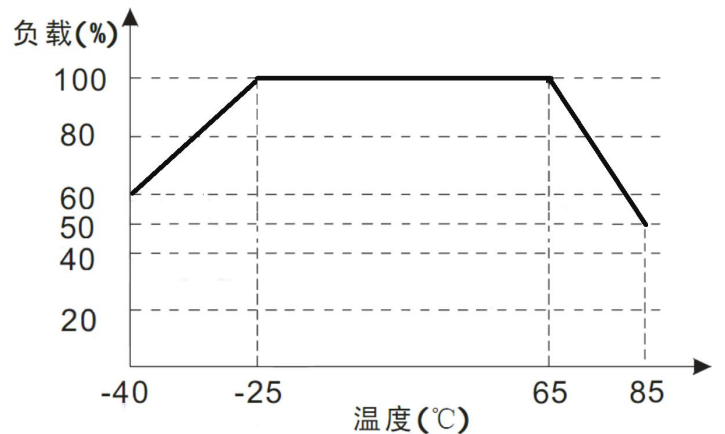
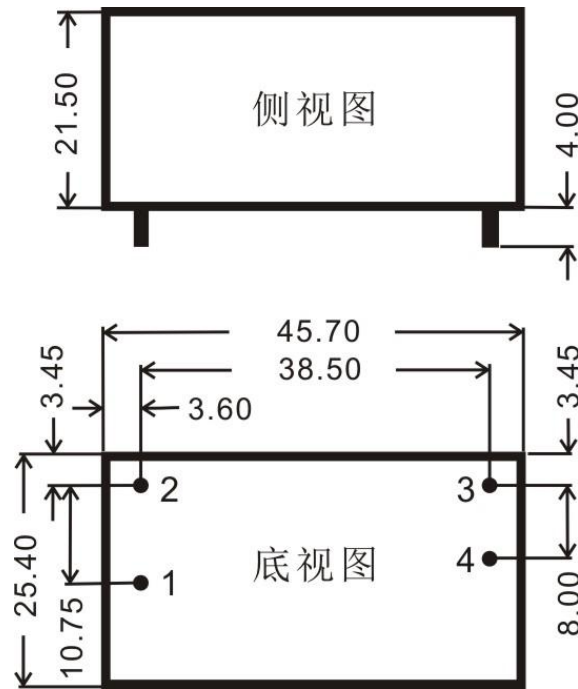


DIAGRAM OF THE TEMPERATURE AND LOAD RELATIONSHIP



APPEARANCE AND SIZE



Unit: mm Tolerance:  $\pm 0.5\text{mm}$

pin	1	2	3	4
definition	AC(N)	AC(L)	-Vo	+Vo