



中国·蓝波
LANBOO

蓝波大电流开关
Pioneer of High-Current Switches
CCC CE RoHS Intertek ISO9001 多项专利

LBD-NDR 规格书
导轨开关电源

LBD-NDR

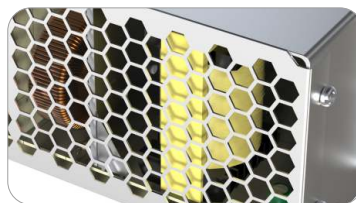
导轨开关电源



全铜变压器



电容滤波



散热



轨道安装

型号说明/选型，写法举例：LBD-NDR-240-24

对应编号		LB	D	—	●	—	●●	—	●●
		1	2		3		4		5
1	LB	LANBOO 蓝波代码							
2	开关电源代码	D							
3	系列号	NDR（导轨式开关电源供应器）							
4	功率(W)	120W/240W							
5	输出电压(V)	12V/24V							

性能参数

输出	直流电压	12V	24V
	纹波及噪声①	<120mV	<120mV/<150mV
	电压调节范围	±10%	
	电压精度	±1%/±2%	±1%
	线性调整率	±0.5%	
	负载调整率	±1%	
输入	电压范围/频率	85~264VAC 47Hz~63Hz(120VDC~370VDC)	
	效率(典型)② NDR-120	86%	88%
	效率(典型)② NDR-240	/	86%
	冲击电流	110VAC 20A, 220VAC 35A	
	漏电流	<1mA 240VAC	



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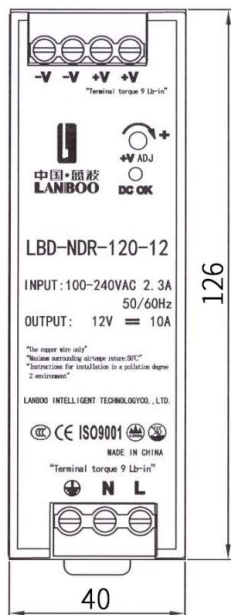
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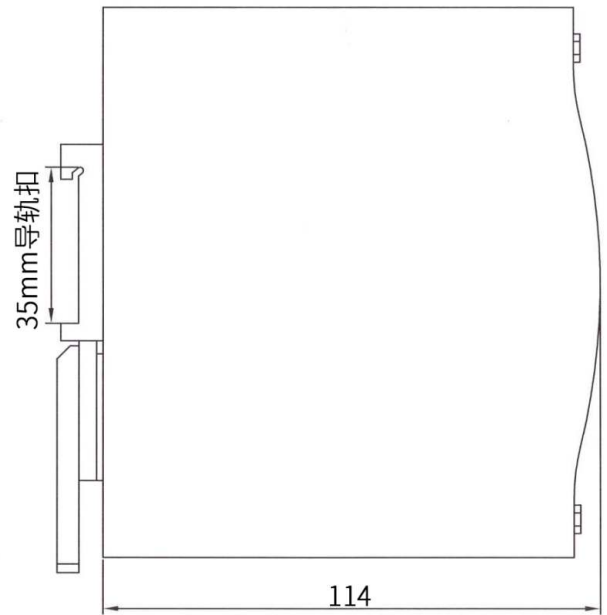
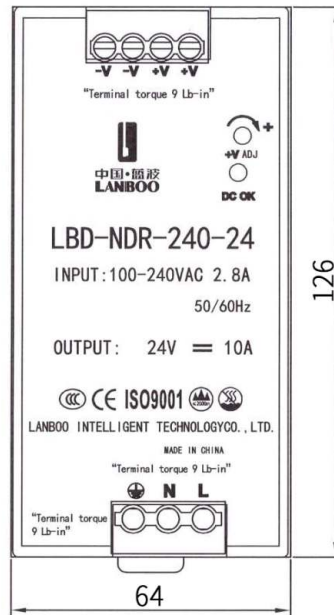
保护特性	过载保护	105%-150% 保护类型：打嗝模式，解除异常情况自动恢复正常
	过压保护	>135% 保护类型：关闭输出，异常情况自动恢复正常
	短路保护	+VO降至欠压点关闭输出，异常条件解除后自动恢复
	过温保护(NDR-240)	>85°C时关闭输出，温度下降后电源重启后恢复
环境	工作温度、湿度	-10°C~+60°C: 20%~90RH
	储存温度、湿度	-20°C~+85°C: 10%~90RH
安全	耐压	输入—输出:3.0KVAC 1min 输入—外壳:1.5KVAC 1min 输出—外壳:0.5KVAC 1min
	漏电流	输入—输出:1.5KVAC时<5mA
	绝缘电阻	输入—输出: 500VDC/100MΩ 输入—外壳: 500VDC/100MΩ 输出—外壳: 500VDC/100MΩ
其他	产品认证	CCC CE RoHS REACH
	质保	66个月
备注	①纹波和噪声测量方法:使用一条12双绞线,同时终端要并联0.1uF和47uF的电容,在20MHz带宽下进行测量。 ②如未特别说明,所有规格参数均在输入为230VAC、额定负载、25°C环境温度下进行量测。 精度: 包含设定误差,线性调整率和负载调整率。 线性调整率测试方法: 在额定负载下从低电压到高电压测试。 负载调整率测试方法: 从0%-100%额定负载。 启动时间是在冷启动状态下测得,快速频繁开关机可能会使启动时间增加,当操作海拔高于2000米时,操作环境温度需调降5°C/1000米。	

型号	LBD-NDR-120		LBD-NDR-240	
直流电压	12V	24V	12V	24V
额定电流	10A	5A	4.5A	10A
额定功率	120W	120W	54A	240A
工作电流	<2.25A/110VAC <1.3A/220VAC			
尺寸	40*125*113mm(L*W*H)		63*125*113mm(L*W*H)	
启动、上升、保持时间	500ms、70ms、32ms:110VAC 500ms、70ms、36ms:220VAC		3000ms、100ms、22ms:110VAC 1500ms、100ms、28ms:220VAC	

NDR-120



NDR-240

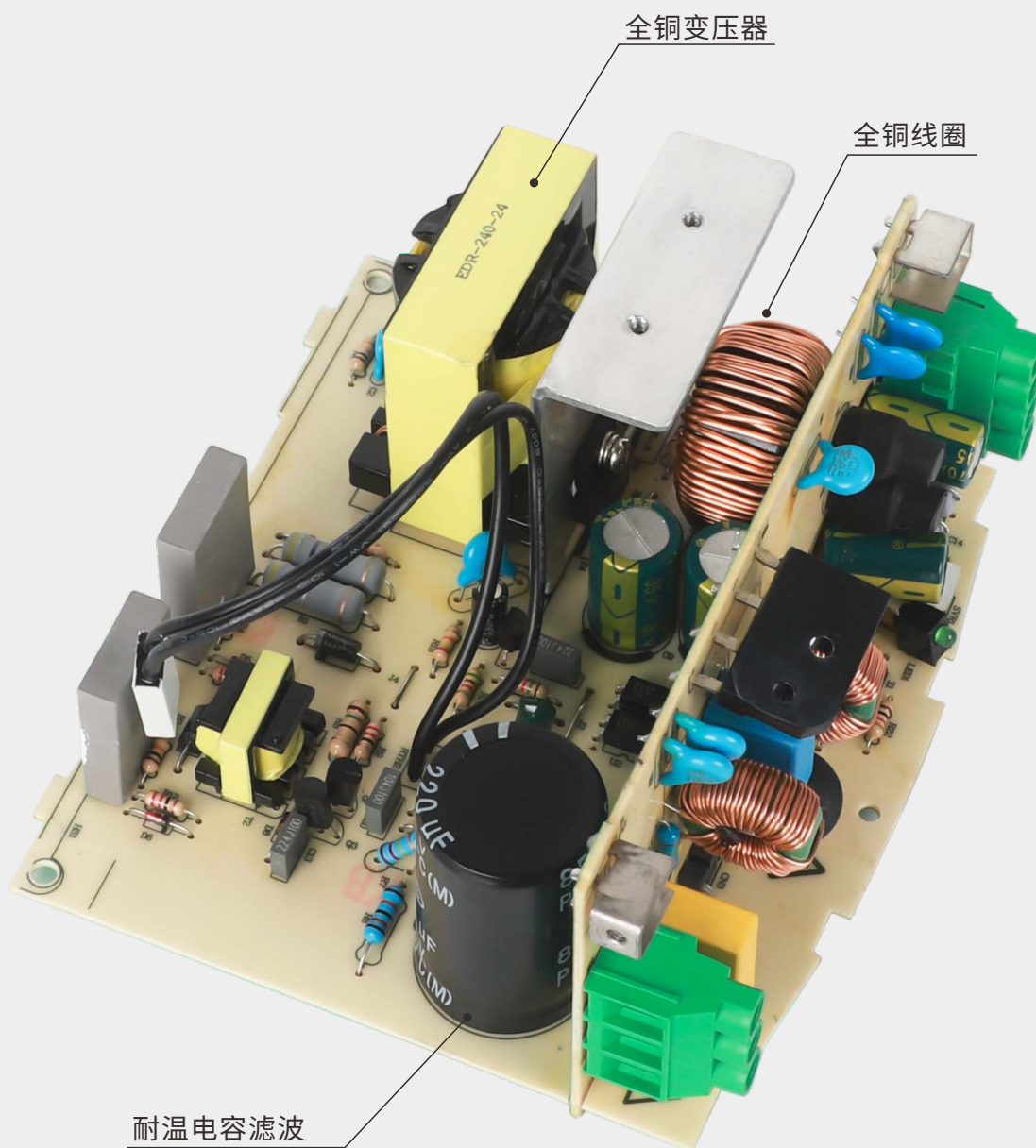




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LBD-NDR specification
Switch power supply

LBD-DR

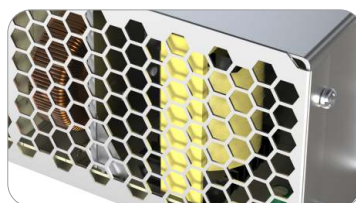
Switch power supply



All copper transformer



Capacitor filter



Radiating



Rail mounting

Model Description/Selection, Example:LBD-NDR-240-24

对应编号		LB	D	—	●	—	●●	—	●●
		1	2		3		4		5
1	LB	LANBOO							
2	Code	D							
3	Series No.	NDR (Rail mounted switch mode power supply)							
4	Power(W)	120W/240W							
5	Output voltage(V)	12V/24V							

The performance parameters

Output	DC Voltage	12V	24V
	Ripple and noise①	<120mV	<120mV/<150mV
	Voltage regulation range	±10%	
	Voltage accuracy	±1%/±2%	±1%
	Line Regulation	±1%	
	Load Regulation	±1%	
Input	Voltage range/frequency	85~264VAC 47Hz~63Hz(120VDC~370VDC)	
	Efficiency (typical)② (NDR-120)	86%	88%
	Efficiency (typical)② (NDR-240)	/	86%
	Impulse current	110VAC 20A, 220VAC 35A	
	Leakage current	<1mA 240VAC	



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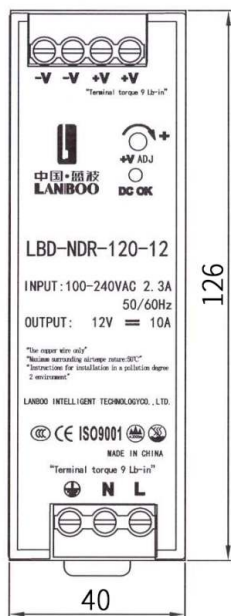
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LBD-NDR specification
Switch power supply

Protection characteristics	Overload protection	105%-150% Protection type: Hiccup mode, automatically returns to normal after resolving abnormal situations
	Overvoltage protection	>135% Protection type: Close output, automatically restore to normal in case of abnormal situations
	Short circuit protection	+The VO drops to the undervoltage point and closes the output. After the abnormal condition is resolved, it will automatically recover
	Over Temperature Protection (NDR-240)	When the temperature is greater than 85 °C, the output will be turned off and restored after the power is restarted after the temperature drops
Environment	Operating temperature and humidity	-10°C~+60°C: 20%~90RH
	Storage temperature and humidity	-20°C~+85°C : 10%~90RH
Secure	Pressurization	Input — Output:3.0KVAC 1min Input — Shell:1.5KVAC 1min Output—Shell:0.5KVAC 1min
	Leakage current	Input — Output:1.5KVAC<5mA
	Insulation resistance	Input — Output: 500VDC/100MΩ Input—Shell: 500VDC/100MΩ Output—Shell: 500VDC/100MΩ
Other	Product Certification	CCC CE RoHS REACH
	Quality assurance	66 months
Notes	① Ripple and noise measurement method: a 12 twisted pair is used, and the terminal should be connected in parallel with 0.1uF and 47uF capacitors, and the measurement is carried out under 20MHz bandwidth. ② Unless otherwise specified, all specifications and parameters are measured under the input of 230VAC, rated load and 25 °C ambient temperature. Accuracy: including setting error, linear adjustment rate and load adjustment rate. Linear regulation rate test method: test from low voltage to high voltage under rated load. Load regulation rate test method: from 0% to 100% of rated load. The start-up time is measured in the cold start state. Fast and frequent switching on and off may increase the start-up time. When the operating altitude is higher than 2000 meters, the operating ambient temperature needs to be reduced by 5 °C/1000 meters.	

Model	LBD-NDR-120		LBD-NDR-240	
DC Voltage	12V	24V	12V	24V
Rated current	10A	5A	4.5A	10A
Rated power	120W	120W	54A	240A
Working current	<2.25A/110VAC <1.3A/220VAC			
Size(L*W*H)	40*125*113mm		63*125*113mm	
Start, rise, hold time	500ms、70ms、32ms:110VAC 500ms、70ms、36ms:220VAC		3000ms、100ms、22ms:110VAC 1500ms、100ms、28ms:220VAC	

NDR-120



NDR-240

