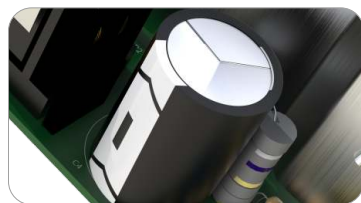


# LBD-DR

## 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-DR-240-12

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	DR (导轨式开关电源供应器)						
4	功率(W)	45W/60W/240W/480W						
5	输出电压(V)	12V/24V						

### 性能参数

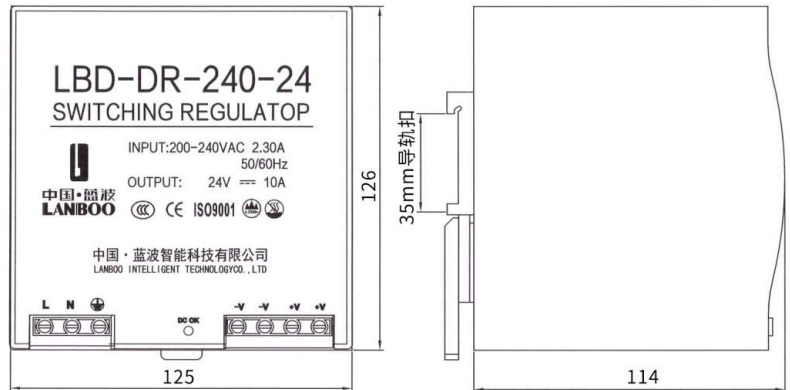
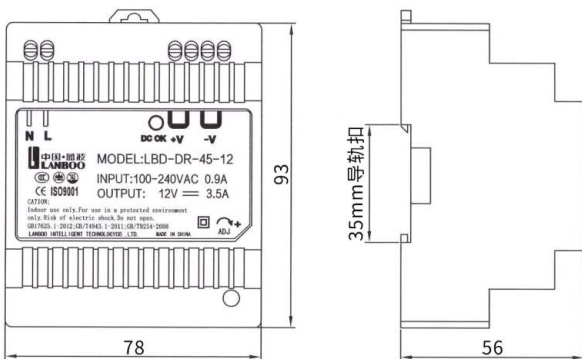
输出	直流电压	12V	24V
	纹波及噪声①	<120mV	<120mV/<150mV
	电压调节范围	±10%	
	电压精度	±1%	
	线性调整率	±1%	
	负载调整率DR-(240-480)	±1%	
输入	效率(典型)② DR-(45-60)	86%	88%
	效率(典型)② DR-(240-480)	/	84%
	冲击电流	110VAC 20A, 220VAC 35A	
	漏电流 DR-(240-480)	<1.5mA 240VAC	

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		
	短路保护	DR-45/60	+VO降至欠压点 关闭输出，异常条件解除后自动恢复	DR-240/480 +VO降至欠压点 关闭输出，异常条件解除后 电源重启后自动恢复
	过压保护 (DR-240/480)	输出电压>135%时，关闭输出，异常条件解除后自动恢复		
	过温保护 (DR-240/480)	>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~+50°C: 20%~90RH		
	储存温度、湿度	-20°C~+85°C: 10%~90RH		
安全	耐压	DR-45/60	输入—输出:3.0KVAC 1min	DR-240/480 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	<p>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。</p> <p>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。</p> <p>精度：包含设定误差，线性调整率和负载调整率。</p> <p>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。</p> <p>负载调整率测试方法：从0%-100%额定负载。</p> <p>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。</p>			

型号	LBD-DR-45		LBD-DR-60		LBD-DR-240		LBD-DR-480	
直流电压	12V	24V	12V	24V	24V		24V	
额定电流	3.5A	2A	4.5A	2.5A	10A		20A	
额定功率	42W	48W	54A	60A	240W		480W	
工作电流	<1A/110VAC	<0.5A/220VAC	<1.2A/110VAC	<0.8A/220VAC	<4A/110VAC <2.5A/220VAC		<7.5A/110VAC <4.5A/220VAC	
电压范围/频率	85-264VAC 47Hz~63Hz(120VDC~370VDC)				85-264VAC 47Hz~63Hz(120VDC~370VDC)		180-264VAC 47Hz~63Hz(120VDC~370VDC)	
尺寸	78*93*56mm(L*W*H)				125.5*100*125.2mm(L*W*H)			
启动、上升、保持时间	100ms、30ms、21ms:110VAC/100ms、30ms、100ms:220VAC				2000ms、30ms、21ms:220VAC 1200ms、30ms、10ms:115VAC		3000ms、100ms、22ms:110VAC 1500ms、1000ms、28ms:220VAC	

DR-45/60

DR-240/480





中国·蓝波  
LANBOO

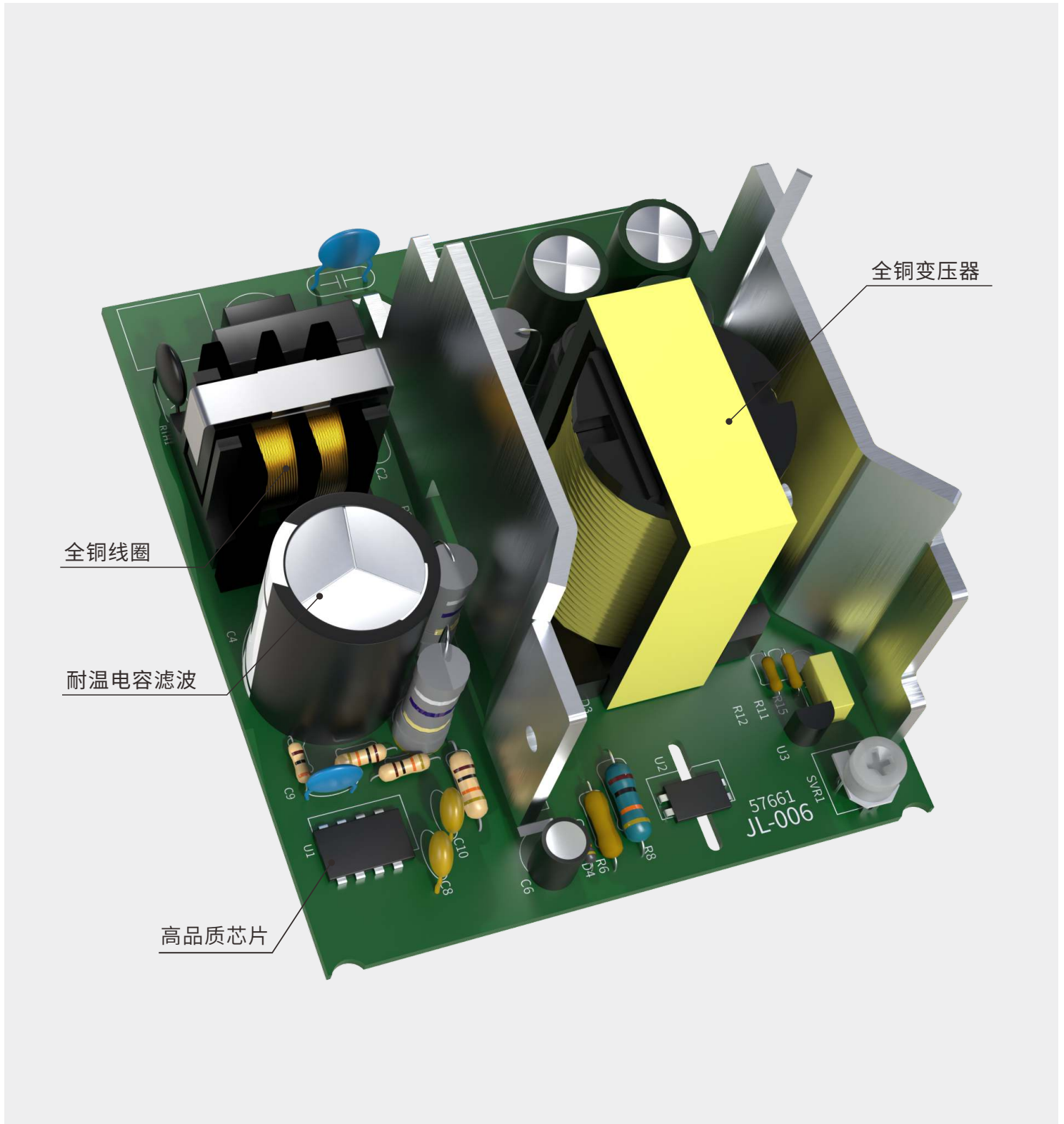
蓝波大电流开关

Pioneer of High-Current Switches

CE RoHS Intertek ISO9001 多项专利

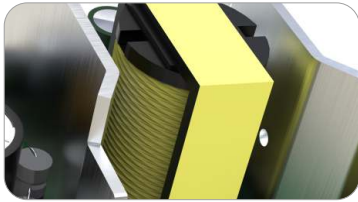
LBD-DR 规格书

导轨开关电源

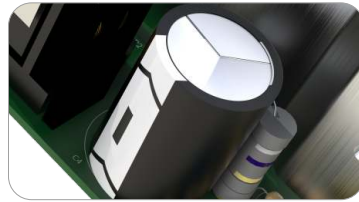


# LBD-DR

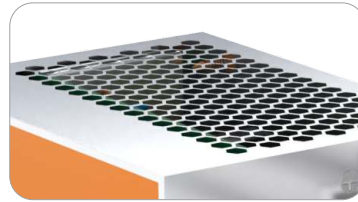
Switch power supply



All copper transformer



Capacitor filter



Radiating



Rail mounting

## Model Description/Selection, Example:LBD-DR-240-12

对应编号	LB	D	—	●	—	●●	—	●●
	1	2		3		4		5
1 LB	LANBOO							
2 Code	D							
3 Series No.	DR (Rail mounted switch mode power supply)							
4 Power(W)	45W/60W/240W/480W							
5 Output voltage(V)	12V/24V							

## The performance parameters

Output	DC Voltage	12V	24V
	Ripple and noise ①	<120mV	<120mV/<150mV
	Voltage regulation range	±10%	
	Voltage accuracy	±1%	
	Line Regulation	±1%	
	Load Regulation	±1%	
Input	Efficiency (typical) ② (DR-45/60)	86%	88%
	Efficiency (typical) ② (DR-240/480)	/	84%
	Impulse current	110VAC 20A, 220VAC 35A	
	Leakage current (DR-240/480)	<1.5mA 240VAC	

Protection characteristics	Overload protection	105%-150% Protection type: Hiccup mode, automatically returns to normal after resolving abnormal situations				
	Short circuit protection	DR-45/60	+The VO drops to the undervoltage point and closes the output. After the abnormal condition is resolved, it will automatically recover		DR-240/480	+The VO drops to the undervoltage point and closes the output. After the abnormal condition is resolved, the power supply restarts and automatically recovers
	Overvoltage protection (DR-240/480)	When the output voltage is greater than 135%, the output is turned off and automatically restored after the abnormal conditions are resolved				
	Over Temperature Protection (DR-240/480)	When the temperature is greater than 85 °C, the output temperature drops and the power is restored after restarting				
Environment	Operating temperature and humidity	-10°C~+50°C: 20%~90RH				
	Storage temperature and humidity	-20°C~+85°C : 10%~90RH				
Secure	Pressurization	DR-45/60	Input — Output:3.0KVAC 1min		DR-240/480	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	<p>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.</p> <p>② Unless otherwise specified, all specifications and parameters are measured under the input of 230VAC, rated load and 25 °C ambient temperature.</p> <p>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.</p>					

Model	LBD-DR-45		LBD-DR-60		LBD-DR-240		LBD-DR-480	
DC Voltage	12V	24V	12V	24V	24V		24V	
Rated current	3.5A	2A	4.5A	2.5A	10A		20A	
Rated power	42W	48W	54A	60A	240W		480W	
Working current	<1A/110VAC	<0.5A/220VAC	<1.2A/110VAC	<0.8A/220VAC	<4A/110VAC <2.5A/220VAC		<7.5A/110VAC <4.5A/220VAC	
Voltage range/frequency	85-264VAC 47Hz~63Hz(120VDC~370VDC)				85-264VAC 47Hz~63Hz(120VDC~370VDC)		180-264VAC 47Hz~63Hz(120VDC~370VDC)	
Size	78*93*56mm(L*W*H)				125.5*100*125.2mm(L*W*H)			
Start, rise, hold time	100ms、30ms、21ms:110VAC/100ms、30ms、100ms:220VAC				2000ms、30ms、21ms:220VAC 1200ms、30ms、10ms:115VAC		3000ms、100ms、22ms:110VAC 1500ms、1000ms、28ms:220VAC	

DR-45/60

DR-240/480

