



产品特点

Product

220V交流输入

220V AC input

效率高达88%

Up to 88% efficiency

主路输出电压可调

Main circuit output voltage adjustable

三路输出电压

Triple Output Voltage

内置辅助电源

Built-in auxiliary power supply

DC输出指示

DC output indication

保护种类: 短路/过负载/过电压/过温度

Type of protection: short circuit/overload/overvoltage/overtemperature

可选加喷防潮剂

Optional moisture barrier spray

5年保固

5-year warranty

产品描述:

Product Description:

LSP1系列是一款单路输出机壳型交流变直流电源供应器, 整系列输入电压范围为220V, 并且能提供单路直流电压输出。

LSP1 is a single-output AC-to-DC power supply, with a full range of input voltage of 220V, and can provide single-channel DC voltage output.

型号命名规则:

Model Naming Rules:

伺服步进专用电源 LSP1- 360 - 36

①

②

③

④

① 名称

② 系列名

③ 功率

260: 代表260W

360: 代表360W

400: 代表400W

④ 输出电压

24: 代表24V

36: 代表36V

48: 代表48V

60: 代表60V

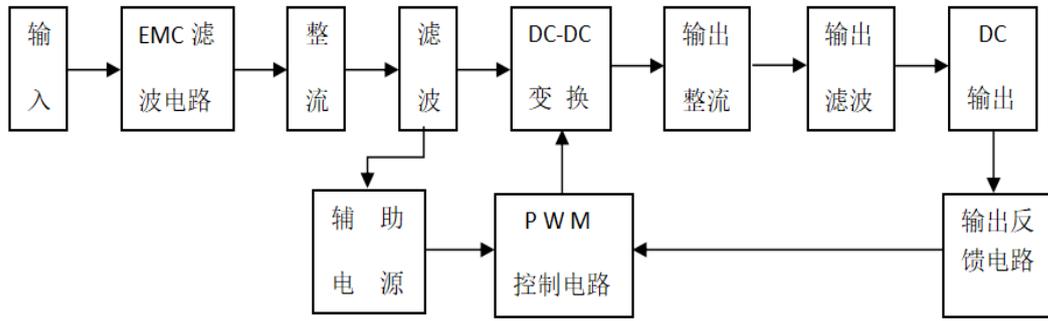
电气规格

型号 Model		LSP1-260-24	LSP1-360-24	LSP1-360-36	LSP1-360-48	LSP1-400-60
规格型号 Specifications And Models		260-24	360-24	360-36	360-48	400-60
输出特性 Output Characteristics	输出电压 Output Voltage	24V	24V	36V	48V	60V
	额定输出电流 Rated Current	10.8A	15A	10A	7.5A	6.7A
	额定功率 Rated Power	260W	360W	360W	360W	400W
	输出电压精度 Output Voltage Accuracy	±1.0%				
	线性调整率 Linear Adjustment Rate	±0.5%				
	负载调整率 Load Adjustment Rate	±0.5%				
	波纹及噪声 Ripple And Noise	400mVp-p				
	温度系数 Temperature Coefficient	±0.02%/°C (0-50°C)				
	输出电压可调节范围 Adjustable Range	23.9V-24.1V	23.9V-24.1V	35.9V-36.1V	47.9V-48.11V	59.9V-60.1V
	整机效率 Overall Efficiency	≥88%	≥88%	≥88%	≥88%	≥88%
	上升时间 Rise Time	30ms(满载时) 30ms (at full load)				
保持时间 Hold Time	30ms					
输入特性 Input Characteristics	输入电压 Input Voltage	220V				
	交流电流 Alternating Current	6A/220V				
	输入频率 Input Frequency	47-63Hz				
	泄露电流 Leakage Current	<2.0mA/240VAC				
	浪涌电流 Surge Current	65A/220V				
环境特性 Environmental Characteristics	工作温度 Working Temperature	'-20~+60°C (参考"减额曲线") '-20~+60°C (Refer to "Reduction Curve")				
	工作湿度 Working Humidity	20-90% RH无冷凝 20-90% RH non-condensing				
	储存温度、湿度 Storage Temperature、Humidity	' -40~+85°C,10~95%RH				
	耐振劫 Vibration-Proof	10~500Hz, 2G10分钟/周期, XvY、Z轴各60分钟 10~500Hz, 2G10 min/cycle, 60 min each for XvY, Z axis				
保护特性 Protective Characteristics	过负载 Overloaded	额定输出功率的130-170% 130-170% of rated output power 保护类型:关断 Protection type: shutdown				
	过电压 Overvoltage	保护类型: 自恢复 Type of protection: Self-recovering				
	过温度 Overtemperature	关断输出电压,温度下降后自动恢复 Output voltage is turned off and automatically restored when the temperature drops.				
功能特性 Functional Characteristics	输出电压调整 (IPV) Output Voltage Regulation (IPV)	输出电压可以在额定输出±10%范围内调整 Output voltage can be adjusted within ±10% of rated output				
	辅助电源 Auxiliary Power	12V@0.5A(±5%)				

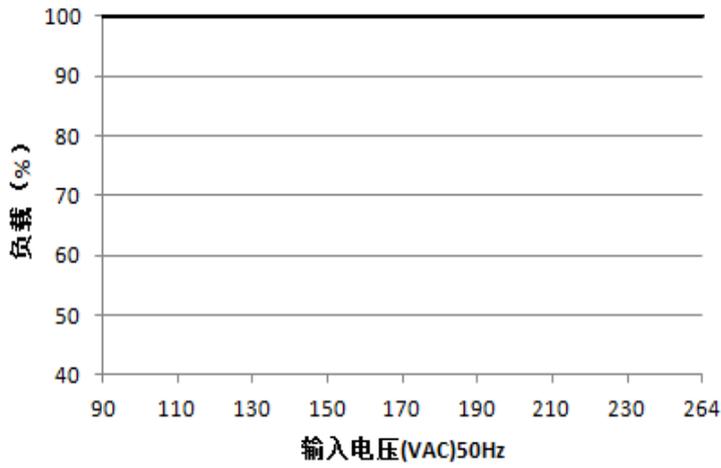
安规和电磁兼容 Safety and EMC	安全规范 Safety Norm	UL60950-1, TUV EN60950-1, EAC TP TC 004, CCC GB4943.1, BSMI CNS14336-1 认证通过 UL60950-1, TUV EN60950-1, EAC TP TC 004, CCC GB4943.1, BSMI CNS14336-1 Certificated by				
	耐压 Pressure Resistance	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
	绝缘阻抗 Insulation Impedance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
	电磁兼容发射 Electromagnetic Compatibilty Emission	参数 Parameters			标准 Standard	测试等级/备注 Test Level/Remarks
		Conducted	EN55032 (CISPR32) / EN55011		Class B	
		Radiated	EN55032 (CISPR32) / EN55011		Class A	
		Harmonic	EN61000-3-2			
		Voltage Flicker	EN61000-3-3			
	电磁兼容抗扰度 Electromagnetic Compatibility Immunity	EN55024, EN61204-3, EN61000-6-2, CCC GB17625.1, GB/T9254, BSMI CNS13438				
		参数 Parameters	标准 Standard		测试等级/备注 Test Level/Remarks	
		ESD	EN61000-4-2		Level 3,8KV air; Level 2,4KV contact	
		Radiated	EN61000-4-3		Level 3	
		EFT/Burst	EN61000-4-4		Level 3	
		Surge	EN61000-4-5		Level 4,4KV/Line-Earth; Level 3,2KV/Line-Line	
Conducted		EN61000-4-6		Level 3		
Magnetic Field		EN61000-4-8		Level 4		
Voltage Dips and Interruptions		EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		

其他参数 Other Parameters	MTBF	^313.1Khrs TelcordiaSR-332(Bellcore): ^116.75Khrs MIL-HDBK-217F(25°C)
	尺寸 Sizes	215*115*30mm (L*W*H)
	包装 Wrap	1.95Kg;6pcs/12.7Kg/1.15CUFT
	备注 Note	<p>1.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。 1. If not specified, all specifications are measured at 230VAC input, rated load and 25°C ambient temperature.</p> <p>2. 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带宽下进行量测。 2. Ripple and noise measurement method: using a 12" twisted pair cable, while the terminals should be connected in parallel with 0.1uF and 47uF capacitors, measured in 20MHZ bandwidth.</p> <p>3. 精度：包含设定误差、线性调整率和负载调整率。 3. Accuracy: Including setting error, linear adjustment ratio and load adjustment ratio.</p> <p>4. 低电压输入情况下需减额输出，具体请参照输出减额曲线图。 4. The output should be derated in case of low voltage input, please refer to the output derating graph for details.</p> <p>5. 电源应视为系统内元件的一部分，所有的EMC测试都将测试样品安装在一个厚度1mm,长360mm*宽360mm的金属铁板上测试。电源需结合终端设备进行电磁兼容相关确认。 5. The power supply should be regarded as a part of the system components, all EMC tests will be mounted on a metal iron plate with a thickness of 1mm and a length of 360mm*width of 360mm. The power supply needs to be combined with the terminal equipment for EMC-related confirmation.</p> <p>6. 当海拔高度超过2000米(6500英尺)时，无风扇机型环境温度依每3.5°C/1000m比例下降，有风扇机型环境温度依每5°C/1000m下降。 6. When the altitude exceeds 2,000 meters (6,500 feet), the ambient temperature decreases at a rate of 3.5°C/1,000m for fanless models, and at a rate of 5°C/1,000m for fanned models.</p>
	应用领域 Application	<p>工业控制或自动化装置 Industrial control or automation devices</p> <p>测试和测量仪器 Test and Measurement Instruments</p> <p>激光相关类机器 Laser related machines</p> <p>老化设备 Aging equipment</p> <p>RF应用程序 RF applications</p>

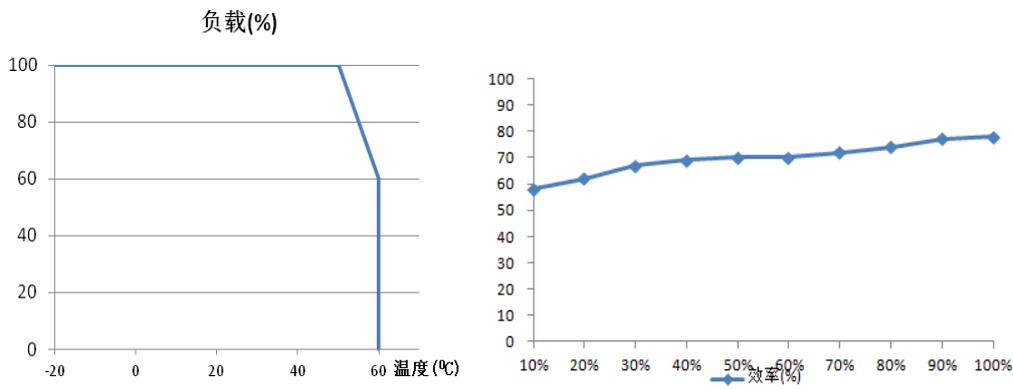
方框图Flowchart:



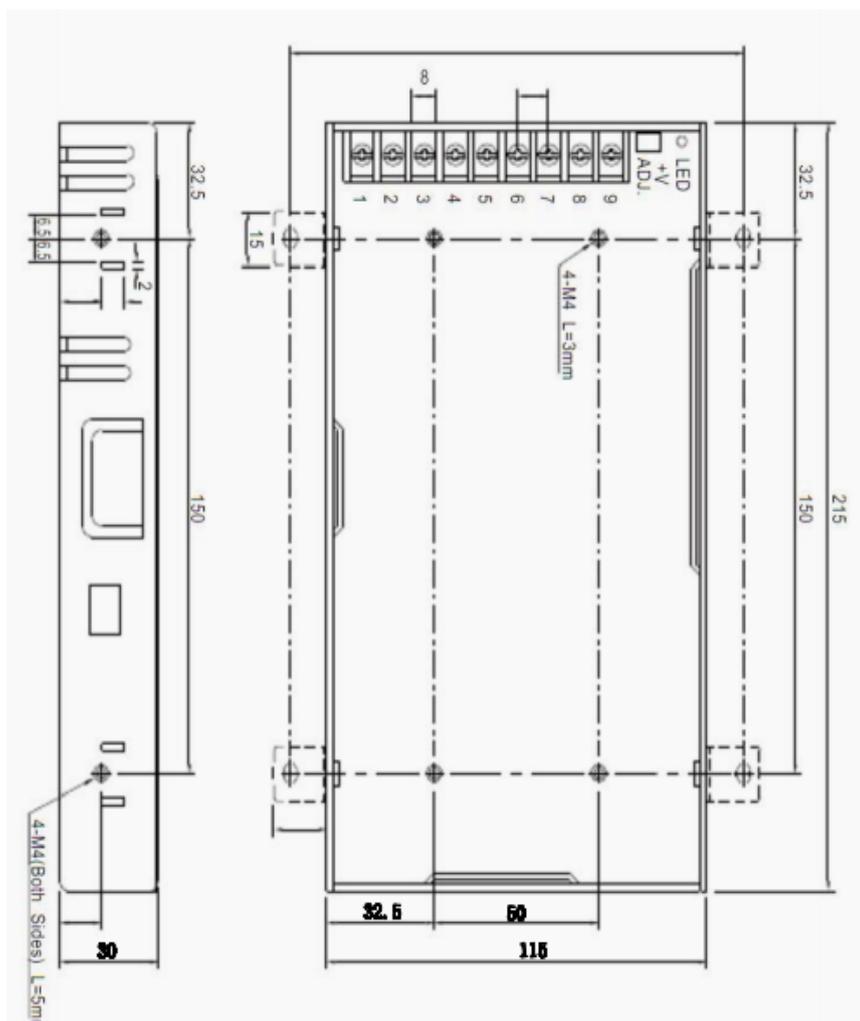
静态特性曲线Static Characteristic Curve:



减额曲线Reduction Curve:



安装尺寸单位Installation Size Unit: mm



孔编号	推荐螺丝型号	最大穿透深度L	推荐安装扭矩
①	M3	6mm	4-6Kgf-cm
②	M3	4mm	4-6Kgf-cm
③	M3	2mm	4-6Kgf-cm