



PSC-100W系列单输出开关电源带电池充电功能 (UPS)

PSC-100W Series Single-Output Switching Power Supply with Battery Charging Function (UPS)

Summary

- > 国际标准交流输入电压范围。
International Standard AC Input Voltage Range.
- > 体积小、重量轻、效率高。
Compact size, lightweight, and high efficiency.
- > 保护功能：短路/过载。
Protection features: short circuit / overload.
- > 电池电压低保护。
Low battery voltage protection.
- > 配 / /
Equipped with power-on/charging/mains display (light-emitting diode).
- > 100% full-load burn-in test, 100%
打 LED 指示灯。
Power-on LED indicator light.



129 × 97 × 30mm

General Specification

型号 Model	PSC-100-12		PSC-100-24	
直流输出电压 DC Output Voltage	CH1:13.8V	CH2:13.8V	CH1:27.6V	CH2:27.6V
输出电压容差 Output Voltage Tolerance	± 1%	-----	± 1%	-----
额定输出电流 Rated Output Current	5.0A	2A(charge)	2.5A	1A(charge)
输出电流范围 Output Current Range	0~7A	-----	0~3.5A	-----
输出功率 Output Power	100W		100W	
纹波和噪声 Ripple and Noise	150mVp-p	-----	200mVp-p	-----
直流电压可调范围 Adjustable Range of DC Voltage	CH1:11.3~14.9V		CH1:21.3~29.8V	
启动、上升和保持时间 Start-up, Rise, and Hold Time	600ms,50ms,80ms/230VAC. 1200ms.50ms.16ms/115VAC.			
输入电压范围 Input Voltage Range	90~264VAC or 135~370VDC			
交流输入电流 AC Input Current	2.4A/115VAC 1.2A/230VAC			
效率 Efficiency	87%		89%	
冲击电流 Inrush Current	冷启动电流 Cold Start Current 30A/115VAC 50A/230VAC			
漏电流 Leakage Current	<1mA/240VAC			
过载保护 Overload Protection	过载保护将在105%至115%的额定输出功率下启动。 Overload protection will be activated at 105% to 115% of the rated output power. 保护模式：AC充电模式：隔离模式，系统可以在去除异常负载条件后自动恢复运行。 Protection mode: AC charging mode: Isolation mode, the system can automatically resume operation after the abnormal load condition is removed.			
低电池电压保护 Low Battery Voltage Protection	9.5~10.3V		19~20.5V	
	保护模式：输出切断。 Protection mode: Output cut-off.			
UPS功能介绍 Introduction to UPS Function	电池高效长期在线浮充，充满度超过97% Long-term online float charging for batteries with high efficiency, over 97% fullness. 满电时自动停止充电，以防止过度充电并延长电池寿命 Automatically stops charging when full to prevent overcharge and extend battery life.			
	在市电和电池之间自动切换，无需延迟，无需手动操作。 Automatic switch between utility power and battery without delay, no manual operation needed.			
	冷启动能力允许UPS在没有市电的情况下直接从电池启动，满足紧急需求。。 Cold start capability allows UPS to start directly from battery in case of no utility power, meeting emergency needs.			
工作温度和湿度 Operating Temperature and Humidity	-20℃至~60℃ 20%~90%RH（请参考负载降额曲线）。 -20℃ to ~60℃; 20%~90%RH (Please refer to the load derating curve).			
存储温度和湿度 Storage Temperature and Humidity	-20℃~+85℃; 10%~95%RH 不凝结 -20℃~+85℃; 10%~95% RH Non-condensing			
抗冲击能力 Shock Resistance	10~500Hz, 2G 10分钟。/每个周期，每个轴持续60分钟 10~500Hz, 2G 10min./per cycle, duration 60 minutes, on each axis.			
耐压能力 Voltage Withstanding Capability	输入和输出之间：1.5kVAC 输入和接地之间：1.5kV AC 输出和接地间：0.5kV DC Between input and output: 1.5kV AC Between input and ground: 1.5kV AC Between output and ground: 0.5kV DC.			
绝缘电阻 Insulation Resistanc	输入与输出、输入与接地、输出与接地之间：100MΩ/500VDC Between input and output, input and ground, output and ground: 100MΩ/500VDC			
尺寸 Dimensions	129*97*30mm(L*W*H)			
包装 Packaging	0.42kg/50pcs/21.5kg/0.041m ³			

- 备注：
1. 除非另有说明，所有参数均在230VAC输入电压、额定负载和25°C温度下测量。
2. 纹波和噪声电压是使用带宽为20MHz的示波器，带有12英寸双引线，末端接有0.1μF和47μF电容器进行测量的。
3. 公差是电压设置误差、电压调节和电流调节的总和。
- Notes:
1. All parameters, unless otherwise specified, are measured at an input voltage of 230VAC, rated load, and a temperature of 25°C.
2. Ripple and noise voltage are measured using a 20MHz bandwidth oscilloscope with 12-inch twin leads terminated with 0.1μF and 47μF capacitors.
3. Tolerance is the sum of voltage setting error, voltage regulation, and current regulation.

Overall dimension (mm)

