



上海稳压器厂
SHANGHAI
VOLTAGE REGULATOR PLANT

Stabilized
Power supply Expert
稳定电源专家



UPS不间断电源系列
uninterruptible power supply series

工业用UPS电源SG系列 (6-30KVA)

Industrial UPS Power Supply SG Series (6-30KVA)

产品概述

Product Overview

SG系列(6-30KVA)是针对国内电网环境和负载系统设计的智能型在线式单进单出、单进三出UPS。系统为在线式双变换拓扑架构设计,完全消除了来自电网的各种干扰,使负载能工作在:稳频稳压、滤除杂讯、不受电网波动干扰、低失真的纯净正弦波电源下。产品采用先进的DSP数字化设计,高速十六位数字芯片和ASIC的DDC控制技术与先进的大功率器件IGBT及SCR完美组合,设计出大容量、高可靠及卓越性能的智能UPS。

The SG series(6-30KVA) is intelligent online single-phase or three-phase UPS. It was designed for domestic power grid environments and load systems. The system is designed with an online dual-inverter topology, completely eliminating interference from the grid, ensuring load operation with a pure, low-distortion, sinusoidal power supply that maintains stable frequency and voltage, filters out noise, and is immune to grid fluctuations. It adopts advanced DSP digital design, high-speed sixteen-bit digital chips and ASIC's DDC control technology, combined with advanced high-power devices IGBT and SCR, to create an intelligent UPS with large capacity, high reliability and outstanding performance.

主要特性

Key Features

- 1、双变换在线式设计,含输出隔离变压器;
Double conversion online design, including output isolation transformer
- 2、宽输入电压设计,卓越的电网适应能力;
Wide input voltage design, excellent grid adaptability
- 3、零切换时间,纯净正弦波输出;
Zero switching time, pure sine wave output
- 4、耐用可靠的工业设计,超强的负载兼容性;
Durable and reliable industrial design, super load compatibility
- 5、直流应急启动功能;
DC emergency start function
- 6、完善的保护功能,标配防雷及浪涌保护;
Complete protection function, standard lightning protection and surge protection
- 7、智能监控功能,可选SNMP卡;
Intelligent monitoring function, optional SNMP card
- 8、大屏幕高清晰液晶及图形显示;
Large screen high-definition LCD and graphic display
- 9、完全满足负载从0到100%的跃变。
Fully meet the load step change from 0 to 100%



应用范围

Applications

- 1、工作站、中大型数据中心部门级集中供电;
Workstation, medium and large-scale data center department-level centralized power supply
- 2、机房、服务器设备
Computer room, server equipment
- 3、发射机站、控制室、医疗仪器设备;
Transmitter stations, control rooms, medical equipment
- 4、工厂生产设备;
Production equipment
- 5、监控、保安系统、资讯中心;
Monitoring, security systems, information centers
- 6、工矿设备、化工、石化生产设备;
Industrial and mining equipment, chemical and petrochemical production equipment
- 7、其他不允许断电之贵重设备。
Other valuable equipment that cannot be powered off





技术参数

Technical Parameter

单相输入输出机型技术规格及参数如下:

Technical specifications and parameters of single-phase input and output models:

型号 Model	SG1106	SG1110	SG1115	SG1120	SG1130	
额定容量 (KVA) Rated Capacity(KVA)	6KVA/4.8kW	10KVA/8kW	15KVA/12kW	20KVA/16kW	30KVA/24kW	
输入 Input						
额定电压 Rated Voltage	220VAC					
输入制式 Input format	L+N+PE					
输入电压范围 Input Voltage Range	220VAC \pm 20%					
输入频率范围 Input Frequency Range	50/60Hz \pm 10%					
输入功率因数 (PF) Input Power Factor	>0.92					
输出 Output						
输出电压 Output Voltage	220VAC \pm 1%					
输出制式 Output format	L+N+PE					
输出频率 (电池模式) Output Frequency (Battery Mode)	50/60 \pm 0.1Hz					
功率因数 Power Factor	0.8					
波形失真度 Waveform Distortion	\leq 2%线性负载, \leq 3%非线性负载 \leq 2% linear load, \leq 3% Non-linear load					
过载能力 Overload Capacity	过载110-125%维持5min后输出转为旁路供电 When the overload reaches 110-125% for 5 minutes, the output will switch to bypass power supply.					
切换时间 Switching Time	0ms					
电池 Battery						
电池电压 Battery Voltage	192VDC					
使用环境 Usage Environment						
运行环境温度 Operating Ambient Temperature	0-40 $^{\circ}$ C					
相对湿度 Relative Humidity	0-95%不结露 0-95%(no condensation)					
储藏温度 Storage Temperature	-25 $^{\circ}$ C - 55 $^{\circ}$ C					
噪音 Noise	<55dB (距离箱体1m处) <55dB(1m away from the cabinet)					
机械尺寸 Cabinet Dimension	净重 (kg) N/W	60	75	98	160	188
	毛重 (kg) G/W	71	87	105	170	206
	尺寸 Dimension (深 \times 宽 \times 高)mm (D \times W \times H)mm	580*230*560	580*250*720	600*305*870	680*410*925	720*410*1000

注: 现行产品规格若有变更, 不再另行通知。

Note: Current product specifications are subject to change without further notice.

技术参数

Technical Parameter

三相输入单相输出机型技术规格及参数如下:

Technical specifications and parameters of the three-phase input and single-phase output models:

型号 Model	SG3106	SG3110	SG3115	SG3120	SG3130	
额定容量 (KVA) Rated Capacity(KVA)	6KVA/4.8kW	10KVA/8kW	15KVA/12kW	20KVA/16kW	30KVA/24kW	
输入 Input						
额定电压 Rated Voltage	380V					
输入制式 Input format	3Ph+N+PE					
输入电压范围 Input Voltage Range	380Vac ± 20%三相输入 380Vac ± 20% three phase Input					
输入频率范围 Input Frequency Range	50/60Hz ± 5%					
输入功率因数 (PF) Input Power Factor	>0.92					
输出 Output						
输出电压 Output Voltage	220Vac ± 1%					
输出制式 Output format	L+N+PE					
输出频率 (电池模式) Output Frequency (Battery Mode)	50/60 ± 0.1Hz (电池模式) 50/60 ± 0.1Hz (Battery Mode)					
功率因数 Power Factor	0.8					
波形失真度 Waveform Distortion	≤2%线性负载, ≤3%非线性负载 ≤2% linear load, ≤3% Non-linear load					
过载能力 Overload Capacity	过载110-130%维持5min后输出转为旁路供电; 150%、维持300ms后输出转为旁路供电 When the overload exceeds 110-130% for 5 minutes, the output will switch to bypass power supply; when it exceeds 150% for 300 ms, the output will also switch to bypass power supply.					
切换时间 Switching Time	0ms					
电池 Battery						
电池电压 Battery Voltage	192VDC					
使用环境 Usage Environment						
运行环境温度 Operating Ambient Temperature	0-40℃					
相对湿度 Relative Humidity	0-95%不结露 0-95%(no condensation)					
储藏温度 Storage Temperature	-25℃ - 55℃					
噪音 Noise	<55dB (距离箱体1m处) <55dB(1m away from the cabinet)					
机械尺寸 Cabinet Dimension	净重 (kg) N/W	90	115	165	210	248
	毛重 (kg) G/W	96	123	173	220	265
	尺寸 Dimension (深×宽×高)mm (D x W x H)mm	600*305*870	600*305*870	600*305*870	680*410*925	720*410*1000

注: 1. 本系列机型均需外接电池。

Note: 1. All models in this series require external batteries.

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上海稳压器厂
SHANGHAI
VOLTAGE REGULATOR PLANT



地址/Address: 上海市松江区文翔东路58号
No.58 East Wenxiang Road, Songjiang District, Shanghai
电话/Phone: 4001868989 021-64108585
传真/Fax: 021-6454 3587
网址/Website: www.csvrp.com

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The product description or design is subject to change without prior notice.