



SANTAK® CASTLE SERIES ON-LINE UPS

CASTLE UPS

1-3kVA



Crucial moment, Powering your business

SANTAK UPS PROVIDE RELIABLE PROTECTION FOR CRITICAL EQUIPMENT AND DATA

- Higher power density, more power output
- Wider input range, higher efficiency
- Ultra low noise, multiple configurable options
- High quality LCD with wide view

PRODUCT INTRODUCTION

Castle 1~3kVA is the leading double conversion topology on-line UPS from Santak. It inherits the high quality standard of the previous Castle series generations, and provides much stronger performance. It offers ideal solution for the major power quality problems such as grid power failure, under voltage, over voltage, sag, surge, line noise, frequency variation, switching transient, harmonic distortion efficiently, and provides a reliable power protection to the customer equipment.

Castle 1~3kVA product provides high adaptability and flexible configuration, and it is applied with leading DSP control technology and offer multiple and extendable options to meet the increasing customized application demand.

Comply with generator



- Wide**
Input voltage range
115-300VAC
- Adaptable to**
Harsh environment
- Compatible with**
Generator
- Ultra-low noise**
<40 dB
- Configurable**
Backup time

Castle 1~3kVA MAINLY APPLIED IN

IT and network equipment

- Small server or workstation
- Switches and monitoring system

MOEM and automatic control system

- ATM, ticket machine
- Electricity and railway signal system, SCADA system

Office equipment

- computer, printer
- scanner, POS equipment

HIGH FLEXIBILITY, HIGH EXTENDABILITY

Safe And Reliable

- Best selling UPS and most widely installed on-line UPS, more than 30 years experience, perfectly match in mutple utility environment

- Professional digital control design technology, strong power semiconductors, Triple protection from hardware and firmware design, safer and more reliable

Green Power Design, Energy Saving

- Output power factor up to 0.9, providing more power
- High efficiency design, save the operating cost, reduce the carbon emissions
- Green and environment protection design, meet all strict standards

Easy Use, Easy Extension

- Easy battery configuration and can meet different backup time requirement
- Intelligent and realtime battery monitoring
- Multiple options, support different applications

Castle 1~3kVA is widely applied in different places

- Harsh environment in high altitudes area
- Remote area with poor grid power
- Coastal area with high humidity and high temperature
- Middle and big cities under power supply shortage pressure
- Castle 1~3kVA always provides safe and reliable protection to your equipment



Castle 1~3kVA UPS Product Specification

Model		Castle 1K	Castle 1KS	Castle 2K	Castle 2KS	Castle 3K	Castle 3KS	
Rating	VA/W	1000VA/900W		2000VA/1800W		3000VA/2700W		
Input	Input Voltage Range	100 ~ 300 VAC						
	Frequency Range	40 Hz - 70 Hz						
	Input Wiring	Single phase with ground						
	input power factor	0.99						
	Output Power Factor	0.9						
Output	Nominal Output Voltage	220/230/240VAC						
	Voltage Regulation	1%						
	Frequency Range (Battery Mode)	50 / 60 ±0.05Hz						
	Outlet	IEC model	IEC C13 *4	IEC C13 *3	IEC C13 *4	IEC C13 *6	IEC C13*4+C19*1	IEC C13*3+ terminal blocker
		Schuko model	Schuko*3	NA	Schuko*4	NA	Schuko*4	NA
		NEMA model	NEMA*4	NA	NEMA*4	NA	NEMA*4	NA
		Universal model	Universal*3	Universal*1	Universal*4	Universal*2+IEC C13*1	Universal*4	Universal*2+IEC C19*1
		Current Crest Ratio	3:1					
		Voltage Distortion (THDv)	< 1% @ linear load, < 5%@ non-linear load					
		Output Waveform	Pure sine wave					
Efficiency	Inverter Mode	>89%		>91%		>91%		
	ECO Mode	>97%						
Battery	Battery Type	12V / 9Ah	External batteries required	12V / 9Ah	External batteries required	12V / 9Ah	External batteries required	
	Number of Internal Battery	2		4		6		
	Rated Battery Voltage	24V		48V		72V		
	Backup Time (@ FullLoad)	> 3.5 mins	depends on customer configuration	> 3.5 mins	depends on customer configuration	>3.5min	depends on customer configuration	
	Recharge Time (to 90%)	4 hours		4 hours		4 hours		
	Charging Current	1.5A	6A	1.5A	6A	1.5A	6A	
Transfer Time	Battery Mode <-->InverterMode	0ms						
	Inverter Mode <-->BypassMode	4ms (typical)						
Display	LCD	load rating / battery capacity / input / output / operating mode						
Dimension	WxHxD (mm)	144x228x356	102x228x346	190x327x399	102x327x390	190x327x399	102x327x390	
Net Weight		9.2 kg	3.9 kg	17.4 kg	6.4 kg	22.7 kg	6.4 kg	
Environment	Operating Temperature	0~40℃						
	Noise Level °	<40dB@1 meter						
Interface	RS232	IEC model and UNIVERSAL model: RS232; SCHUKO model and NEMA model: USB+EPO, no RS232						
	Communication Slot	Yes, comply optional cards NMC, CMC, AS400 card						

Note:

- ° Noise level may vary with equipment, configuration, temperature, etc.
- * All internal batteries are default as STK brand, any other battery brand might be applied without prior notice;
- * NEMA model and UNIVERSAL model are not conformed with CE Standard;

