



# SANTAK TRUE ONLINE CASTLE SERIES UPS

## CASTLE UPS

1 ~ 3kVA

Power Management Expert



AUTHORIZED EXPORTER & MASTER DISTRIBUTOR OF SANTAK UPS PRODUCTS IN VIET NAM

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# 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

C1-3K(S) 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 C1-3K(S) 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.

## C1-3kVA 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

## Product performance

### Safe and reliable

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

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

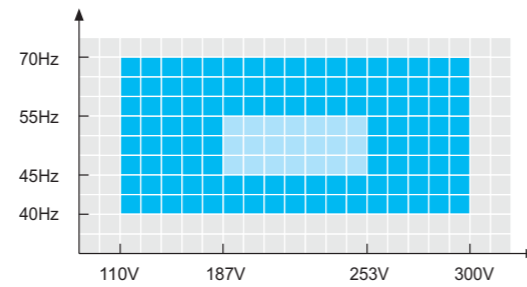
### Green power design, energy saving

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 real time battery monitoring  
 Multiple options, support different applications

★ Wide input voltage and frequency range



■ Grid power variation range  
■ C1-3kVA wide input voltage and frequency range

★ 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 C1-3kVA 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
- C1-3kVA always provides safe and reliable protection to your equipment

Model		C1K-LCD	C1KS-LCD	C2K-LCD	C2KS-LCD	C3K-LCD	C3KS-LCD
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	Output Power Factor	0.9					
	Nominal Output Voltage	220/230/240 Vac					
	Voltage Regulation	1%					
	Frequency Range (Battery Mode)	50/60±0.05Hz					
	Outlet	IEC C13*4	IEC C13*3	IEC C13*4	IEC C13*6	IEC C13*4 IEC C19*1	IEC C13*3 Terminal Blocker*1
	Current Crest Ratio	3:1					
	Voltage Distortion (THDv)	< 1% @ linear load, < 5% @ non-linear load					
	Output Waveform	Pure sine wave					
Efficiency	Inverter Mode	up to 89%		up to 91%		up to 91%	
	ECO Mode	up to 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	>3.5 mins	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)	144x228x356mm	102x228x346mm	190x327x399mm	102x327x390mm	190x327x399mm	102x327x390mm
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°C					
	Noise Level <sup>(1)</sup>	<40dB@1 meter					
Interface	RS232	Yes					
	Communication Slot	Yes, comply optional cards NMC, CMC, AS400 card					

C1-3K(S)LCD-010124

**Note:**

- <sup>(1)</sup> 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.
- \* Backup time is approximate and may vary with equipment, configuration, battery age, temperature, etc.
- \* In the interests of continuous product improvement, all specifications are subject to change without notice.

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