

SANTAK® CASTLE SERIES ON-LINE UPS

CASTLE UPS

1-3kVA
Power Management Expert



 **SANTAK**

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

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> • IT and network equipment | <ul style="list-style-type: none"> • MOEM and automatic control system | <ul style="list-style-type: none"> • Office equipment |
| <ul style="list-style-type: none"> Small server or workstation Switches and monitoring system | <ul style="list-style-type: none"> ATM, ticket machine Electricity and railway signal system SCADA system | <ul style="list-style-type: none"> 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 mutiple utility environment
- Professional digital control design technology, strong power semiconductors, Triple protection from hardware and firmware design, safer and more reliable

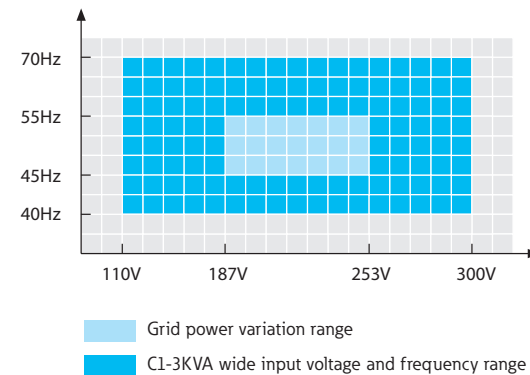
Green power design, energy saving

- 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



★ comply with generator



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

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

CI-3kVA UPS Product Specification

Model		C1K	CIKS	C2K	C2KS	C3K	C3KS	
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	220/230/240VAC						
	Voltage Regulation	1%						
	Frequency Range (Battery Mode)	50 / 60 ±0.05Hz						
	Outlet		4*IEC 10A	3*IEC 10A	4*IEC 10A	6*IEC 10A	4*IEC 10A + 1*IEC 16A	3*IEC 10A + 1*Terminal Blocker
			or 3*SCHUKO	or 2*SCHUKO	or 4*SCHUKO	or 2*SCHUKO+1*IEC 10A	or 4*SCHUKO	or 2*SCHUKO+1*IEC 16A
			or 4*(SCHUKO/ NEMA)	NA	or 4*(SCHUKO/ NEMA)	NA	or 4*(SCHUKO/ NEMA) + 1*Terminal Blocker	NA
			or 3*UNIVERSAL	or 1*UNIVERSAL	or 4*UNIVERSAL	or 2*UNIVERSAL+ 1*IEC10A	or 4*UNIVERSAL	or 2*UNIVERSAL+ 1*IEC16A
	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 (t o 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	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 ¹	<40dB@1 meter						
Interface	RS232	IEC model and UNIVERSAL model: RS232; SCHUKO model and SCHUKO/NEMA adaptable model: USB+EPO, no RS232						
	Communication Slot	Yes, comply optional cards NMC, CMC, AS400 card						

Note:

1. 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;

* SCHOKO/NEMA adaptable outlet Model and UNIVERSAL model are not conformed with CE Standard;



SANTAK ELECTRONICS (SHENZHEN) CO., LTD.

Shenzhen, P.R. China

Address: No. 8 Baoshi Road, Baoan District, Shenzhen, 518101

Tel: 0086 755 27572666

Fax: 0086 755 27572730 (27572480)

Email: Santak_int@eaton.com

Website: www.santak.com

April, 2019 EN-00004-00

