

SANTAK® CASTLE SERIES ON-LINE UPS

CASTLE UPS

1-3kVA

Power Management Expert



 **SANTAK**

COMCAST GROUP

Authorized dealer

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



Wide

Input voltage range
115-300VAC

Adaptable to

Harsh environment

Compatible with

Generator

Ultra-low noise

<40 dB

Configurable

Backup time

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

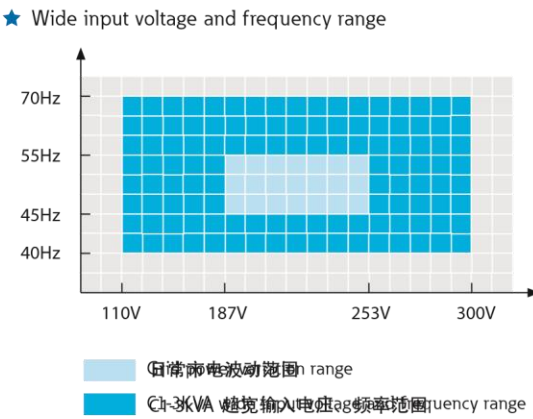
Product performance

- Safe and reliable

 - Best selling UPS and most widely installed on-line UPS, more than 30 Years' experience, perfectly match in multiple utility
 - Professional digital control design technology, strong power Semiconductor- 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
 - 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



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

C1-3kVA UPS Product Specification

| Model | | C1K | C1KS | 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*SCHKUO | 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℃ | | | | | |
| | 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;

