

SANTAK® CASTLE SERIES ON-LINE UPS

# CASTLE UPS

6-10kVA

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

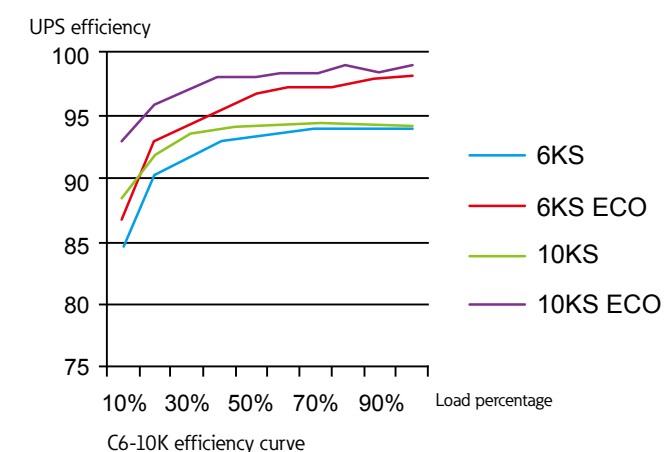
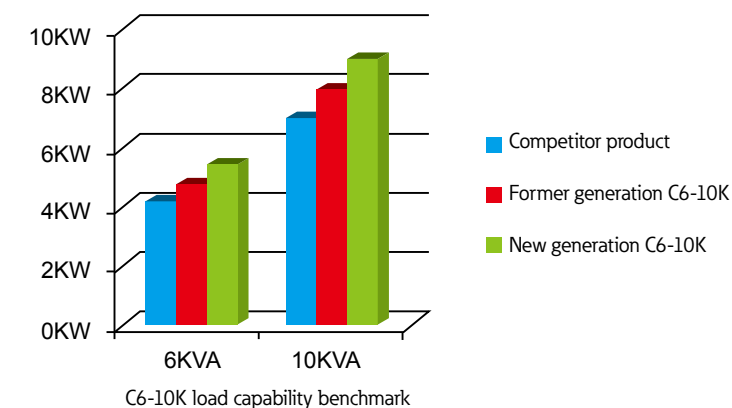


## Product Introduction

C6-10K(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 C6-10K(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.



Multiple options : Maintenance bypass switch, EPO, Parallel, communication cards. Support your UPS solution easily with optional configurations.

## STK CASTLE BATTERIES

—Maintenance-free Sealed Lead-acid UPS Batteries

### Product Introduction

CASTLE C12V series batteries are being designed with more focusing on compatibility with SANTAK UPS and system. Compare to other batteries in the market, CASTLE C12V series batteries can provide longer float charging life time and more powerful discharging characteristics. It is an ideal product for SANTAK UPS backup application.

### Product Features

- Long-life Design
- Excellent High Rate Discharge Performance
- Low Self-discharge Rate
- Best Compatibility With UPS
- High Security
- High Consistency
- Convenient Installation and Maintenance

## Product Performance

### Most widely installed, safe and reliable

- Brand new power electronic design and thermal design. Through applying strong power semiconductors and mature DSP control technology, it will provide the uninterrupted power with higher reliability.

### High power factor

- Output power factor is increasing from 0.8 to 0.9 based on former generation. Comparing with traditional UPS, it offers 26% more power.
- Innovative thermal design, smaller volume with higher power density.

### High efficiency, strong adaptability

- Full load efficiency is up to 94%, and half load efficiency is up to 93.5%, and ECO mode efficiency is up to 98%, saving precious energy resource
- Wide input voltage and frequency (40Hz-70Hz) range, adaptable to different utility environment, compatible with generators perfectly, providing high quality power protection to your equipment

### Humanized design, Tailor-made for you

- Super low audible noise, UPS noise can go as low as 47dB when working in normal environment, providing a silent working environment for you



## C6-10kVA UPS Product Specification

Model		6K	6KS	10K	10KS
Power rating	VA/W	6000VA/5400W		10000VA/9000W	
Input	Input voltage range	120~275VAC			
	Input frequency range	40Hz-70Hz			
	Input connection	Single phase with ground			
	Input power factor	≥0.99			
Output	Output voltage	220VAC			
	Output voltage tolerance	± 1%			
	Output connection	Single phase with ground			
	Output frequency range	50/60Hz± 0.2Hz			
	Output THDV	<2% (linear load)			
		<4% (non-linear load)			
	Output waveform	Pure sinewave			
	Overload capability	line mode	1min @105%~125% load 30S @ 125%~150% load 0.5S @ >150% load		
battery mode					
Efficiency	Line mode	Up to 94%		Up to 94%	
	Battery mode	Up to 98%		Up to 98%	
Battery and charger	Battery quantity	15PCS (Internal)	16PCS (External)	16PCS (Internal)	16PCS (External)
	Battery capacity	12V/7AH	depends on customer configuration	12V/9AH	depends on customer configuration
	Backup time	>4min		>4min	
	Recharge current (to 90% battery capacity)	Standard model 1.2A; Long backup time model 4A;			
Display	LCD	load rating/battery capacity/input/output/operating mode			
Communication and monitoring	Communication port	RS232 stanard offer, USB optional			
	Extendable communication card	Dry Contact Card, USB card, MODBUS card and NMC card are optional			
	Software	Winpower			
Physical parameters	Product dimension (WxDxH)mm	248*500*565	212*500*420	248*500*565	212*500*420
	Product weight (Kg)	59	14	62	16
Environment	Operating temperature	0-40℃			
	Operating humidity	20-90%（no condensation）			
	Audible noise	<50dB @ 1 meters <sup>1</sup>			
Regulations		IEC61000, IEC62040			

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;



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