



SANTAK TRUE ONLINE CASTLE SERIES UPS

CASTLE UPS

10 ~ 20kVA

Power Management Expert



AUTHORIZED EXPORTER & MASTER DISTRIBUTOR OF SANTAK UPS PRODUCTS IN VIET NAM
ECOTEK CANADA PROMOTION TRADE CORPORATION
 BUSINESS ADDRESS: 1188 West Georgia Street, Unit 1660, Vancouver, B.C, Canada, V6E 4A2
 REGISTERED ADDRESS: 1480 Howe Street, Unit 5006, Vancouver, B.C, Canada, V6Z 0G5
 Co. Reg. No.: BC0895460
 Web: www.ecotek-canada.vn



CONTACTS IN VIETNAM:

3/4 Nguyen Van Thu Str, Da Kao ward, District 1, Ho Chi Minh City, Vietnam

Phone : +84-904.204.849 (The North of Vietnam)

: +84-909.893.682 (The Central of Vietnam)

: +84-909.892.447 (The South of Vietnam)

Email : vietnam@ecotek-canada.vn



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

3C10-20K(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 3C10-20K(S) product provides high adaptability and flexible configuration, It is applied with leading DSP control technology, full system self-test on power up, and offers multiple and extendable options to meet the increasing demand for customized applications.

Castle series 3C10~20KS-LCD UPS

- Nominal power rating: 10/15/20kVA.
- Nominal frequency: 50/60HZ.
- Topology: Double conversion on-line UPS.

Typical application

- Small data center of SMB, branch of big enterprise, branch of Bank etc.
- Storage, network equipment, VoIP, communication equipment, automatic equipment, office terminals.
- Precision instrument and equipment.

Higher performance

High output factor 0.9

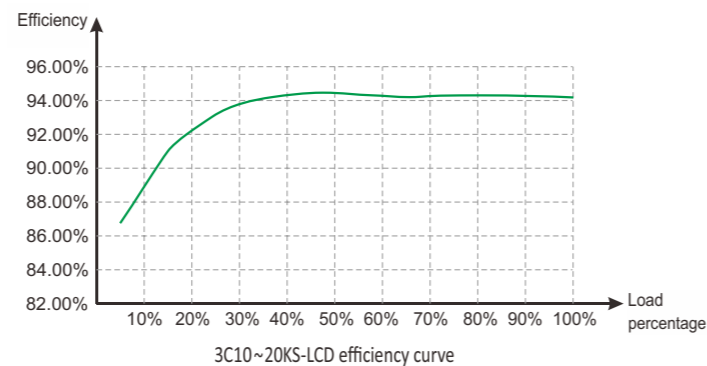
- Power more load, or provide higher reliability with same load.

Input power factor is higher than 0.99

- 3C15/20kVA support 3 phase PFC, and input THDI < 5%.
- 1% output voltage tolerance, 0.1% output frequency tolerance, 1% tolerance in parallel current sharing.

High efficiency 94%

- Starting from 35% load, UPS efficiency will reach 94%.



High Flexibility, High Extendability

Battery quantity adjustable

- 16/18/20 PCS battery adjustable (3C15/20KS).
- Convenient to meet the longer backup time need with lower system cost.

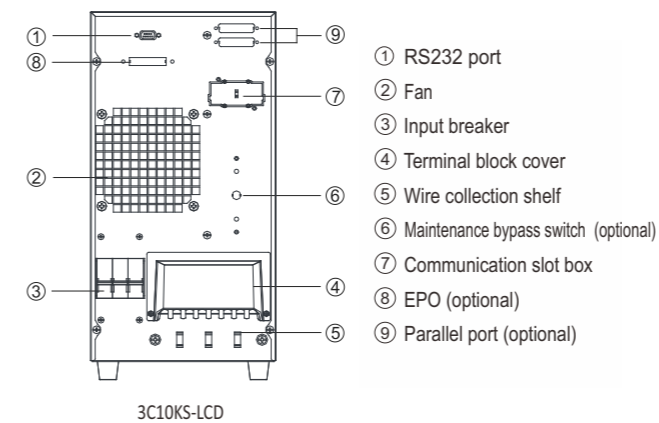
Recharger current adjustable

- Standard recharge current is 4A.
- Extendable up to 8A recharger, support longer backup time, fit for larger capacity battery.(Need to enquire plant before ordering).

Input topology adjustable

- Support both 3 phase input or single phase input.

Rear panel layout



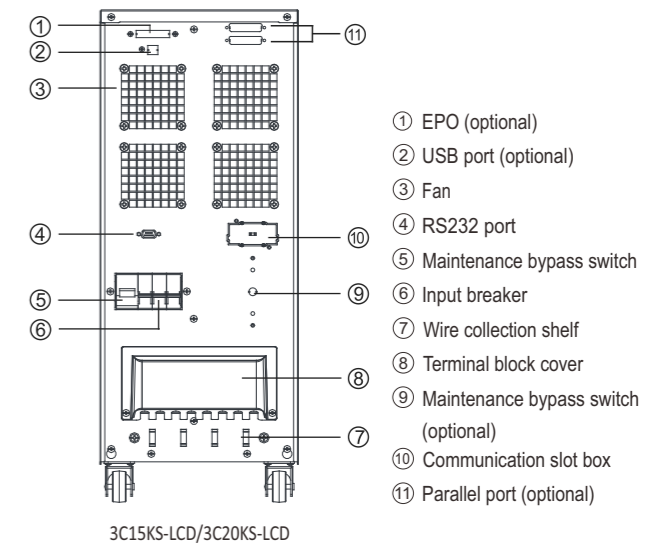
Functionalities

Leading parallel technology

- Mature and stable parallel control technology offer best current sharing tolerance: 1%.
- Select trip technology separates single fault failure and improve the system availability.
- Flexible expansion and redundancy management, meet all kinds of extension requirement after system installation.
- Parallel up to 3 units.

Flexible utility usage mode

- Provide higher system availability in ONLINE mode.
- Provide higher efficiency in ECO mode.
- Provide stable output in CONVERTER mode.



ECOTEK BATTERIES

—Maintenance-free Sealed Lead-acid UPS Batteries

A reference ideal product for SANTAK UPS backup application

Product Introduction

ECOTEK batteries are being designed with more focusing on compatibility with all kinds of UPS. ECOTEK batteries can provide more powerful discharging characteristics and long-life design.

Product Features

- Absorbent Glass Mat (AGM) technology.
- Long life.
- Small size.
- No leakage.
- Low self discharge.
- No water or electrolyte supplement is required.
- Maintenance-free.
- They have been widely used in UPS, and other kinds of back-up power.



SANTAK

Product Specification



Model		3C10KS-LCD	3C15KS-LCD	3C20KS-LCD
Power rating	VA/W	10kVA/9kW	15kVA/13.5kW	20kVA/18kW
Input	Input wiring	Three phase or Single phase with ground(3:1 or 1:1)		
	Input voltage range	208-476Vac(three phase)/120-275Vac (signal phase)		
	Input frequency range	40-70Hz		
	Input power factor	≥0.99		
Output	Output voltage	220/230/240Vac		
	Output voltage regulation	±1%		
	Output wiring	Single phase with ground		
	Output frequency range	50/60Hz ±0.2Hz(battery mode)		
	Output THDV	<2%(linear load)		
		<4%(non-linear load)		
	Output waveform	Pure sinewave		
	Crest factor	3:1		
Overload capability	10min@105%~125% load;30s@125%~150% load;500ms@>150% load			
Efficiency	Line mode	up to 93.5%		
	ECO mode	up to 98%		
Battery and charger	Battery voltage	192VDC	192VDC/216VDC/240VDC (optional)	
	Battery quantity	16PCS(External)	default 20PCS(External),16/18/20PCS adjustment	
	Battery capacity and Backup time	Depends on customer configuration		
	Recharge current	4A		
Parallel	Parallel function	Up to 3		
Display	LCD+LED	load rating/battery capacity/input/output/operating mode/Fault code		
Communication and monitoring	Communication port	RS232 standard offer, USB optional		
	Extendable communication card	Dry contact card, USB card, MODBUS card, NMC card are optional		
	Software	Winpower		
Physical parameters	Product demesion (WxDxH)mm	212 * 500 * 420	248 * 500 * 565	
	Product weight (kg)	16.9	31	
Environment	Operating temperature	0-40°C		
	Humidity	0 ~ 95% (non-condensing)		
	Audible noise	<50dB@1 meters ¹		
Certifications and Standard		IEC 61000,IEC 62040,CE		

EN-CL011024-3C10-20K

Note:

1. Noise level may vary with equipment, configuration, temperature, etc.

* In the interests of continuous product improvement, all specifications are subject to change without notice.

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



Ecotek Canada Promotion Trade Corporation

Address : 3/4 Nguyen Van Thu Str, DaKao ward, District 1, Ho Chi Minh City, Vietnam
 Phone : +84-904.204.849 (The **North** of Vietnam)
 : +84-909.893.682 (The **Central** of Vietnam)
 : +84-909.892.447 (The **South** of Vietnam)
 Email : vietnam@ecotek-canada.vn
 Web : www.ecotek-canada.vn



Technical supports provided by **64 Active Service Points (A.S.P)**
 licensed by **ECOTEK-CANADA®**
 covering all 64 provinces and cities of Vietnam