



SANTAK® CASTLE SERIES ON-LINE UPS

# CASTLE UPS

Rack 6-10kVA



# 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

Castle Rack 6-10K (S) UPS is a new generation smart UPS that can perfectly fit with the advanced modern IT equipment, specifically designed to efficiently address the high quality power needs for IT equipment, network communication and other applications.

Castle Rack 6-10K (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.



### TYPICAL APPLICATION

- Critical server and network device
- IT enclosure
- Equipment related to telecommunications and VoIP etc
- Banking and security system
- Healthcare system
- Manufacturing / control system
- Laboratory equipment, precision instruments etc

### PROVIDE SECURE AND RELIABLE POWER PROTECTION

- Output power factor of up to 1, meeting the protection requirements of the new generation IT equipment
- 95% online mode and 98% ECO mode. The green and environment-friendly design complies with new power source and reduces the operating costs for customers as well
- On-line double conversion technology, zero transfer time offering reliable power protection
- Built-in paralleling function to provide the highest level of power protection for the most critical system, thus ensuring the reliability >99.99%
- Compact size fits for rack, the height of 10KW UPS is only 2U with 600mm depth



# EBM (EXTENDED BATTERY MODULE)

UPS	Voltage	Battery Configuration
Rack 6K (S)	192VDC	16 x 12V, 7Ah
	240VDC	20 x 12V, 7Ah
Rack 10K (S)	192VDC	16 x 12V, 9Ah
	240VDC	20 x 12V, 9Ah

\* EBM default configuration is 192VDC

\* 240VDC EBM need confirmation before ordering

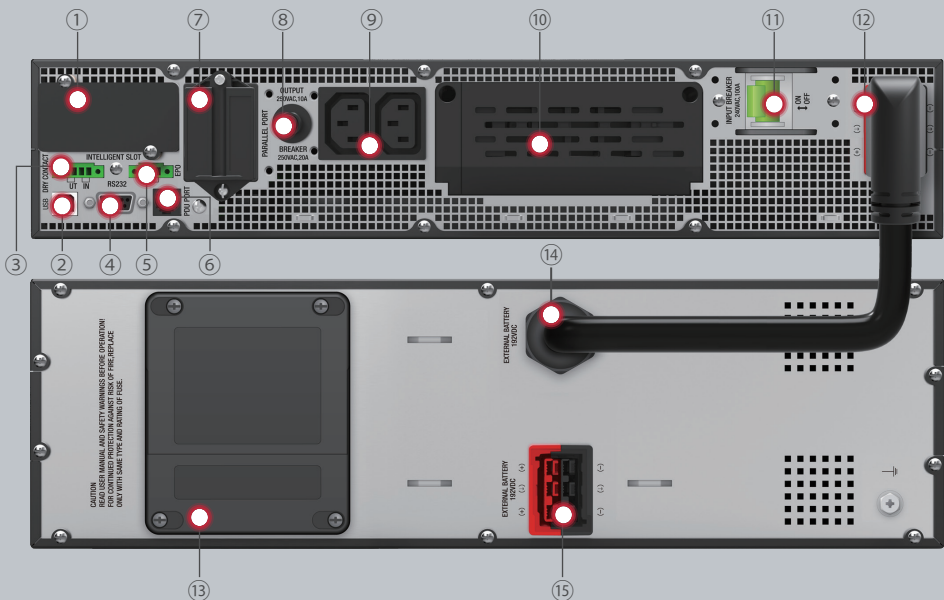
## FLEXIBLE CONFIGURATION, OFFERING CUSTOMIZED SOLUTION

- Adjustable recharge current, helpful to improve battery life based on different customer requirements
- Flexible battery configuration, 16/17/18/19/20 consequently adjustable
- Connect to 3U Battery PACK or extend to external battery group, easy configuration backup time
- RACK design and fits for standard RACK installation, meanwhile support tower installation

## EASY MANAGEMENT

- LCD Display
- Standard RS232,USB, EPO, configurable dry contacts communication port Provide intelligent slot card for NMC card, MODBUS card, Relay card optional

## REAR PANEL LAYOUT



- |                         |  |                                       |
|-------------------------|--|---------------------------------------|
| ① Intelligent slot      | ⑦ Parallel card (optional)   | ⑬ Fuse board cover (replace EBM fuse) |
| ② USB                   | ⑧ Output breaker   | ⑭ EBM plug                            |
| ③ Dry IN/OUT            | ⑨ Output socket  | ⑮ EBM connector                       |
| ④ RS232                 | ⑩ Input/Output terminal<br>(4pole IPL, IPN. OPL, OPN. PE is screw) |                                       |
| ⑤ EPO                   | ⑪ Input breaker (optional)   |                                       |
| ⑥ RJ11 (connect to PDU) |  |                                       |

# Rack 6-10kVA UPS Product Specification

Model		Rack 6K	Rack 6KS	Rack 10K	Rack 10KS
Power rating	VA/W	6000VA/6000W			10000VA/10000W
Input	Input voltage range	110~275VAC			
	Input frequency range	40Hz-70Hz			
	Input wiring	Single phase with ground			
	Input power factor	≥0.995			
Output	Output voltage	208/220/230/240 VAC			
	Output voltage tolerance	±1%			
	Output wiring	Single phase with ground			
	Output connection	2*IEC, 1*Terminal Block			
	Output frequency range	50/60Hz±0.1Hz (battery mode)			
	Output THDV	<1% (linear load) <5% (non-linear load)			
	Output waveform	Pure sinewave			
	Overload capability	10min @ 105~125% load 30S @ 125~150% load 0.5S @ >150% load			
Efficinecy	Line mode	Up to 95%		Up to 95%	
	ECO mode	Up to 98%		Up to 98%	
Battery and charger	Battery quantity	16PCS default, 16/17/18/19/20 adjustable			
	Recharge time to 90% battery capacity	3 hours	depends on customer configuration	3 hours	depends on customer configuration
	Backup time	>4min @ 100% load >11min @ 50% load		>2.1min @ 100% load >8min @ 50% load	
	Recharge current	1.4A default, 0-4A adjustable	4A default, 0-12A adjustable	2A default, 0-4A adjustable	4A default, 0-12A adjustable
Display	LCD+LED	load rating/battery capacity/input/output/operating mode			
Communication and monitoring	Communication port	RS232, USB+EPO, Dry in/Dry out configurable.			
	Extendable communication card	Dry Contact Card, MODBUS Card, NMC Card are optional			
	Software	Winpower			
Physical parameters	Product dimension (W*H*D) mm	438* 86.3* 573mm (UPS) 438*129* 593mm (EBM)	438* 86.3* 573mm	438* 86.3* 573mm (UPS) 438*129* 593mm (EBM)	438* 86.3* 573mm
	Product weight (Kg)	14 (UPS) 46 (EBM)	14	16 (UPS) 52 (EBM)	16
Environment	Operating temperature	0-40℃			
	Operating humidity	0-95% (non-condensing)			
Standard		IEC62040, IEC60950			

## Note:

\* All internal batteries are default as STK brand, any other battery brand might be applied without prior notice;



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