



SANTAK® CASTLE SERIES ON-LINE UPS

# CASTLE UPS

Rack 1-3kVA



# Castle Rack 1-3kVA UPS Introduction

Castle Rack 1-3kVA UPS is on-line double conversion topology uninterruptible power supply with outstanding performance and provide reliable power to the critical equipment of customer. It can work perfectly in harsh utility environment, eliminate all kinds of disturbances in utility power and provide high quality and precise pure sinewave output to protect the precious equipment of customer. It is ideal solution for small power protection needs.

## HIGH RELIABILITY DESIGN IMPROVE THE PRODUCT COMPATIBILITY WITH DIFFERENT KIND UTILITY ENVIRONMENT, AND REDUCE THE FAILURE MAY OCCUR TO MINIMUM

- Wide input voltage and frequency range design is compatible with harsh power environment and reduce the use of battery and extend battery lifetime
- Enhance UPS reliability with high quality components and excellent control design in firmware



Wide  
Input voltage  
range  
115-300VAC

Adaptable  
to  
Harsh  
environment

Compatible  
with  
Generator

Ultra-low  
noise  
<40 dB

Configurable  
Backup time

## TYPICAL APPLICATION

- Network closet
- Telecom Rack
- Precise equipment
- Process control
- Security and monitoring
- IT equipment in medical and industry

## USER FRIENDLY & INTELLIGENT MANAGEMENT

- Provide various intelligent monitoring solution for IT and industrial environment to help user to realize the remote control and central monitoring easily
- Short depth save installation space
- Auto-restart when utility power is recovery, and support start-on-battery function
- WINPOWER software is compatible with virtualization platform



# Product Performance

## HIGH POWER DENSITY AND GREEN DESIGN

- 2U x 570mm depth delivery up to 3kVA backup power
- Green design with high output power factor, high efficiency and low input harmonic

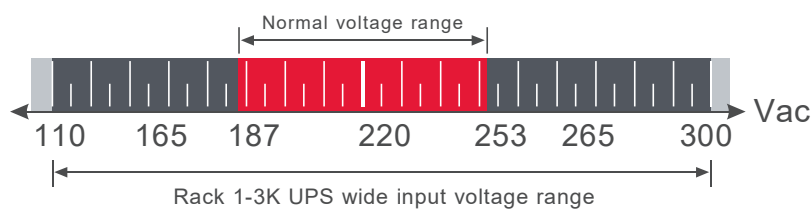
## EASY USE, EASY EXTENSION

- 19inch standard cabinet or non-standard cabinet compliant
- Extendable backup time with EBM to meet long backup time needs from customer
- Resettable input circuit breaker
- Can start without mains
- Standard RS232 communication, NMC card, MODBUS card, Relay card optional

## HIGH ADAPTABILITY AND RELIABILITY

- Wide input voltage and frequency range, to minimize battery use and extend battery lifetime
- Online double conversion technology assure reliable high quality backup power to customer equipment
- Adapted to remote area with poor grid power
- Adapted to middle and big cities under power supply shortage pressure

Up to **0.9** output power factor  
Providing more power supply



# RACK 1-3kVA UPS Product Specification

Model		Rack 1K	Rack 1KS	Rack 2K	Rack 2KS	Rack 3K	Rack 3KS
Power rating		1kVA		2kVA		3kVA	
Input	Input Voltage Range	(110-300)VAC					
	Frequency Range	40-70Hz					
	Input Power Factor	≥0.98					
Battery and charger	Rated Battery Voltage	24V	36V	48V	72V	72V	96V
	Type	Maintenance-free Sealed Lead-acid UPS Batteries					
	Number of Internal Battery	2PCS	-	4PCS	-	6PCS	-
	Recharge Current	1A	6A	1A	6A	1A	6A
Output	Nominal Output Voltage	220*(1±2%)VAC					
	Frequency Range	sync with line of +/-4Hz(Line mode) 50±0.05Hz (Battery mode)					
	Output Power Factor	0.9@30°C and 0.8@40°C;					
	Overload capacity	105%-150% , 47s-25s; 150%-200% , 25s-300ms; >200% , 200ms (0.8PF)					
	Outlet	IEC C13*6 pcs		IEC C13*3 pcs + C19*1 pc			
Transfer Time	Battery Mode<-->InverterMode	0ms					
	Inverter Mode<-->BypassMode	4ms (typical)					
Backup time (80% load, 0.8PF)		>4.5 min	depends on customer configuration	>4.5 min	depends on customer configuration	>4.5 min	depends on customer configuration
Indicator	LED	Load, battery capacity, UPS working mode					
Alarm	Battery Discharge	Battery full: 1buzzing/4s; Battery empty: 1buzzing/1s					
	UPS Alarm	Buzzing continue					
Auto restart		Auto restart while mains recover					
Interface	USB	Monitoring					
	Optional Parts	NMC Card, Modbus Card, Relay Card					
Environment	Temperature	0°C-40°C					
	Humidity	0-95%, non-condensing					
Net Weight	UPS	11	7.2	17.5	8.9	21.6	9.0
	EBM	-	20.0	-	20.0	-	24.8
Dimension (W*D*H)	UPS	438*420*87	438*420*87	438*570*87	438*420*87	438*570*87	438*420*87
	EBM	-	438*420*87	-	438*420*87	-	438*420*87

**Note:**

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



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