

SANTAK® CASTLE SERIES ON-LINE UPS

CASTLE UPS

Rack 1-3kVA

Power Management Expert



 **SANTAK**

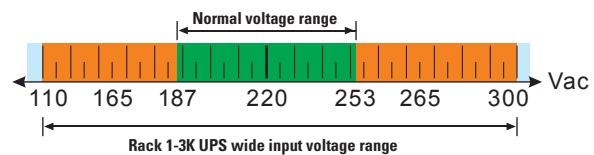
Castle Rack 1-3KVA UPS Introduction

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



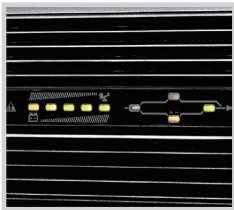
Typical application

- Network closet
- Process control
- Telecom Rack
- Security and monitoring
- Precise equipment
- 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	
Capacity	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		Same with main (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	<95%					
Net Weight	UPS	11	7.2	17.5	8.9	21.6	9.0
	Battery Pack	-	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
	Battery Pack	-	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;



EATON ENTERPRISES LIMITED
SANTAK ELECTRONICS (SHENZHEN) CO., LTD.

Regional Headquarter Office

Shanghai, P.R. China

Address: Building 3, Lane280 Linhong Road,
Changning District, Shanghai, 200335

Tel: 0086 21 5200 0099

Fax: 0086 21 5200 0300

Email: Santak_int@eaton.com

Website: www.santak.com

Manufacturing Plant

Shenzhen, P.R. China

Address: No. 8 Baoshi Road, Baoan District,
Shenzhen, 518101

Tel: 0086 755 27572666

Fax: 0086 755 27572730 (27572480)

Email: Santak_int@eaton.com

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