	PRODUCT SPECIFICATIONS	REF. No. : EN-00007-01
	PRODUCT SERIES : Santak Castle Series MODEL : RACK 10KS TECHNOLOGY : Online double conversion	: 614-02181XS1-01
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INPUT

Nominal Voltage	: 220VAC
Phase	: Single phase with ground (2W + G)
Power Factor	: ≥ 0.995
Voltage Range	: 110 ~ 275VAC 100 ~ 176 UPS derating to 50%~100% 176 ~ 276VAC with 100% load
Nominal Frequency	: 50/60Hz auto-sensing
Frequency Rated	: 40 ~ 70Hz
System phase lock Range	: 50Hz: 45 ~ 55Hz 60Hz: 54~ 66Hz
Free run Range	: Load derating to 60% 40 ~ 45Hz, 66 ~ 70Hz
Freq. Low Detection / Comeback	: 40Hz / 40.5Hz
Freq. High Detection / Comeback	: 70Hz / 69.5Hz
THDi	: < 3% (With R full load at Line normal)
Default Input Current	: 57.6A
Protection	: 100Amp Breaker
Connection	: Terminal Block


BYPASS

Output before UPS power-on	: YES
Voltage Range	: 176 ~ 264VAC
Protection	: 100Amp Breaker

Auto transfer to bypass mode When UPS is overloaded, failed, low battery ...

OUTPUT

Power Capacity	: 10kVA/ 10kW
Power Factor	: 1
Voltage	: 208 (90% load)/220/230/240VAC
Voltage Regulation	: $\pm 1\%$
Waveform	: Pure sinewave

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- Voltage Distortion : < 1% (linear load)
< 5% (non-linear load)
- Frequency : 50/60Hz, auto sensing or configurable as a converter
- Slew Rate : 2Hz/s (Can be adjust by command: 0.5 ~ 2Hz)
- Max synch phase error : 3°
- Efficiency : > 98% at High Efficiency mode
> 95% at Line mode
> 93% at Battery mode
- Overload Capability : 100-105%: No alarm
105-125%: Transfer to Bypass mode after 10 minutes and alarm
125-150%: Transfer to Bypass mode after 30 seconds and UPS shuts down after 30 seconds
> 150%: Turn o foutput after 0.5 seconds
- Nominal Output Current : 27.3/26.1/25A (220/230/240V)
- Bypass Output without turning on: Yes
- Maintenance Bypass Switch : PDU Option
- Connection : 2*IEC, 1*Terminal Block

BATTERY AND CHARGER


EBM Option:

- Type : VRLA, Maintenance Free
- Rating : 12V9Ah
- Quantity : Default 16pcs/EBM

Reference Battery configuration :	RACK 10KS EBM	Backup time at 100% load	Backup time at 50% load
	EBM * 1	2 mins	8 mins
	EBM * 2	7 mins	20 mins
	EBM * 3	13 mins	29 mins
	EBM * 4	20 mins	46 mins

External Battery Cabinet Option:

- Quantity : Configurable from 16 pcs to 20 pcs
- Reference Battery configuration : Backup time varies depending on battery capacity and quantity.

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ENVIRONMENTAL

Operating Temperature	: 0 ~ 40°C 40 ~ 50°C output power derating to 50% load, Charger current derating 50%
Storage Temperature	: -15 ~ 40°C with batteries -25 ~ 60°C without batteries
Humidity	: 0% ~ 95%, Non-condensing
Altitude	: Up to 3,000 meters above sea level with 10% derating per 1000m

STANDARD & SAFETY

Audible Noise	: < 50db at 1 meter typical
Certifications	: EN 62040-1 IEC/EN 62040-2: Cat C3 IEC/EN 62040-3 EN 60950-1
EMC	: Conduction: C3 IEC/EN 62040-2 Radiation: C3 IEC/EN 62040-2 IEC 61000-4-2, Level 3 IEC 61000-4-3, Level 3 IEC 61000-4-4, Level 4 (also on signal ports) IEC 61000-4-5, Level 4, Criteria B IEC 61000-4-6, Level 3 IEC 61000-4-8, Level 4 IEC 61000-4-11

MECHANICAL FEATURES

Unit	
Dimensions (W x D x H) mm	: 438 x 573 x 86,3 mm
Weight (kg)	: 16 kg
Packaging	
Dimensions (W x D x H) mm	: 580 x 760 x 220 mm
Weight (kg)	: 18.9 kg

Specifications are subject to change without notice.