	PRODUCT SPECIFICATIONS	REF. No. : EN-00007-01
	PRODUCT SERIES : Santak Castle Series MODEL : RACK 6K 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	: 31.2A
Protection	: 63Amp Breaker
Connection	: Terminal Block


BYPASS

Output before UPS power-on	: YES
Voltage Range	: 176 ~ 264VAC
Protection	: 63Amp Breaker

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

OUTPUT


Power Capacity	: 6kVA/ 6kW
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 off output 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

Type	: VRLA, Maintenance Free
Rating	: 12V7Ah
Quantity	: Default 16pcs, configurable from 16 pcs to 20 pcs
Backup Time	: > 4 minutes at 100% load >11 minutes at 50% load
Auto Shutdown Voltage	: 10.5 VDC/pcs. Load 0 ~ 25% 9.6 VDC/pcs. Load > 25%
Protection	: Fast-acting Fuse
Rated Charge Voltage	: 13.65V/pcs
Voltage Initial Charging	: 1.4A default. Can be set up 0 to 4A
Recharge Time	: 3 Hours recharge to 90%

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INTERFACE

Control Panel	: Power On/Off, Self-test/Alarm silence
Indicators	: Graphical LED & LCD display: Line, Battery, Bypass, Inverter, Load level/Battery level, Fault
Diagnostics	: Full system self test on power up
Auto Restart Function	: Auto restart while AC source restored after discharge shutdown
DC Power-on Function	: On-battery power on
Audible Alarm	: Battery mode: Beeps every four seconds Battery low: Beeps every second Overload: Beeps twice every second Bypass: Beeps every two minutes Fault: Beeps continuously
Communications	
- DB-9 Port	: RS232, USB interface
- Intelligent Slot (SNMP)	: Available (Options : Dry Contact Card , MODBUS Card, NMC Card)
- Parallel	: Option
- Emergency Power Off(EPO)	: Built-in
Cooling	: Force air cooling Fan speed depends on the operation mode and load level

PARALLEL FUNCTION


Parallel card	: Option
Number of UPS in Parallel	: Up to 3 units

TRANSFER TIME

Online mode	: 0 ms (no break)
High Efficiency mode	: 10 ms maximum (due to loss of utility)

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

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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

** For output cable <10m.*

MECHANICAL FEATURES

Unit	
Dimensions (W x D x H) mm	: 438 x 573 x 86,3 mm
Weight (kg)	: 14 kg
Packaging	
Dimensions (W x D x H) mm	: 580 x 760 x 220 mm
Weight (kg)	: 16.7 kg

Specifications are subject to change without notice.