

PRODUCT SERIES : Santak Castle Series MODEL : C10KS-LCD

:	220VAC
:	Single phase with ground (2W + G)
:	≥ 0.99
:	120 ~ 275VAC
:	120VAC / 140VAC, at load ≤ 50%;
	150VAC / 165VAC, at 50% < load ≤ 70%;
	165VAC / 180VAC, at 70% < load ≤ 90%;
	185VAC / 200VAC, at load > 90%;
:	275VAC / 260VAC
:	50/60Hz
:	40 ~ 70Hz
:	40Hz / 40.5Hz
:	70Hz / 69.5Hz
:	< 3% (With R full load at Line normal)
:	44A
:	63Amp Breaker
:	Terminal Block

### **BYPASS**

Output before UPS power-on	<ul> <li>Default "YES", can be configured to "NO" through</li></ul>
Voltage Range	Winpower software <li>187 ~ 264VAC</li>
Bypass Low Detection	<ul> <li>Default 187VAC, can be set to 176 ~ 209VAC through</li></ul>
Bypass Low comeback	Winpower software <li>Bypass Low voltage detected plus 10VAC</li>
Bypass High detection	<ul> <li>Default 264VAC, can be set to 231 ~ 264VAC</li></ul>
Bypass High comeback	through Winpower software <li>Bypass High voltage detected minus 10VAC</li>
Protection	: 63Amp Breaker



PRODUCT SERIES : Santak Castle Series MODEL : C10KS-LCD Page No. 2 OF 4

<u>OUTPUT</u>		
Power Capacity	:	10kVA / 9kW
Power Factor	:	0.9
Voltage	:	220/230/240VAC
Voltage Regulation	:	±1%
Waveform	:	Sine wave
Voltage Distortion	:	≤ 2% (Full linear load) ≤ 4% (Full RCD load)
Frequency	:	Battery mode: 50/60Hz ±0.05Hz
		Line mode: Synchronized to 50/60Hz ±4Hz
Slew Rate	:	< 1.0 Hz/sec
Phase Lock Error to Line	:	< 2°
Transient Recovery	:	60ms (R load from 0% to 100% and vice versa)
Current Crest Ratio	:	3:1
Efficiency	:	Up to 90% at battery mode Up to 93% at line mode Up to 97% at ECO mode
Overload Capability	:	105% < Load ≤ 125%, transfer to bypass mode after 10 min (0°C ~ <30°C) or 1 min (30°C ~ 40°C) Bypass over load > 30 minutes then turn off output;
		125% < Load ≤ 150%, transfer to bypass mode after 30s Bypass over load > 1 minutes then turn off output;
		Over 150%, transfer to bypass after 0.5s Bypass over load > 30 seconds then turn off output;
Nominal Output Current	:	45A
Short Circuit Protection	:	Cut off output within 100ms in Line mode & Battery mode; Input Breaker in Bypass mode
Bypass Output without turning or	<b>):</b>	Yes
Maintenance Bypass Switch	:	Option
Connection	:	Terminal Block



REF. No. : B-WR1-235-217A

PRODUCT SERIES : Santak Castle Series MODEL : C10KS-LCD

Туре	:	Sealed, Maintenance Free, Lead-Acid
Rating	:	Option
Quantity	:	16 pieces
Nominal DC Voltage	:	192VDC
Backup Time	:	Depends on the external battery capacity
Auto Shutdown Voltage	:	176VDC ±2VDC when load < 1kW 152VDC ± 2VDC when load > 1kW
Protection		Fast-acting Fuse
Floating Charging Voltage	:	216VDC ±1%
Initial Charging Current		4A
Recharge Time	:	Depends on the external battery capacity
Over Voltage Protection	:	235.2VDC ± 1%
Leakage Current	:	< 3.5mA
Connection	:	Terminal Block
<u>INTERFACE</u>		
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 interface
- Intelligent Slot (SNMP)	:	Available (Options : NMC, AS400 or CMC Card)
- Parallel Port	:	Option
- Emergency Power Off(EPO)	:	Option
Cooling	:	Force air cooling



PRODUCT SERIES : Santak Castle SeriesPage No.MODEL: C10KS-LCD4 OF 4

### PARALLEL FUNCTION

Parallel card: OptionNumber of UPS in Parallel: Up to 3 units

#### TRANSFER TIME

Utility Power Failure	:	0 ms
Bypass to Inverter and vice versa	:	< 4 ms
		0 ms option
ECO to Inverter and vice versa	:	< 4 ms
Auto Transfer	:	Automatically re-transfer to Inverter mode after overload is cleared

#### **ENVIRONMENTAL**

: 0 ~ 40°C
: -25°C ~ 55°C
: 20% ~ 90%, Non-condensing
: < 1000 m

#### **STANDARD & SAFETY**

Audible Noise	: ≤ 50dB, at 1-meter distance in front of the front panel (Exclusive of Buzzer)
EMC	: IEC61000
	IEC/EN62040-2
Safety	: IECEN62040-1

#### **MECHANICAL FEATURES**

Unit	
Dimensions: W x D x H (mm)	: 212 x 500 x 420 mm
Weight (Kg)	: 15.9 Kg
Packaging	
Dimensions: W x D x H (mm)	: 320 x 595 x 578 mm
Weight (Kg)	: 17.4 Kg

Specifications are subject to change without notice.