

|                                                                                   |                                       |  |                                           |
|-----------------------------------------------------------------------------------|---------------------------------------|--|-------------------------------------------|
|  | <b>PRODUCT SPECIFICATIONS</b>         |  | REF. No. : 614-02071XS1-02<br>EN-00004-01 |
|                                                                                   | PRODUCT SERIES : Santak Castle Series |  | Page No.                                  |
|                                                                                   | MODEL : C1K-LCD                       |  | 1 OF 4                                    |

## **INPUT**

|                         |                                          |
|-------------------------|------------------------------------------|
| Nominal Voltage         | : 220/230/240VAC                         |
| Phase                   | : Single phase with ground               |
| Allowed Voltage Range   | : 100 ~ 300VAC                           |
| Nominal Frequency       | : 50/60Hz                                |
| Frequency Range         | : 40 ~ 70Hz                              |
| Power Factor            | : 0.99                                   |
| Noise Suppression       | : Full time EMI filtering                |
| Nominal RMS Current     | : 4.9A(220VAC)/4.7A(230VAC)/4.5A(240VAC) |
| Protection              | : Resettable Circuit Breaker             |
| Connection              | : IEC320 C14 inlet                       |
| Generator Compatibility | : Yes                                    |

## **BYPASS**

|                            |                                                                      |
|----------------------------|----------------------------------------------------------------------|
| Output before UPS power-on | : Default "NO", can be configured to "YES" through Winpower software |
| Auto Transfer              | : Auto transfer to bypass mode When UPS is overloaded, failed        |
| Protection                 | : Resettable Circuit Breaker                                         |

|                                                                                   |                                       |  |                                           |
|-----------------------------------------------------------------------------------|---------------------------------------|--|-------------------------------------------|
|  | <b>PRODUCT SPECIFICATIONS</b>         |  | REF. No. : 614-02071XS1-02<br>EN-00006-01 |
|                                                                                   | PRODUCT SERIES : Santak Castle Series |  | Page No.                                  |
|                                                                                   | MODEL : C1K-LCD                       |  | 2 OF 4                                    |

## **OUTPUT**

|                         |                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal Power Capacity  | : 1KVA / 0.9KW                                                                                                                                                                                                 |
| Nominal Voltage         | : 220/230/240VAC                                                                                                                                                                                               |
| Regulation              | : $\pm 1\%$                                                                                                                                                                                                    |
| Waveform                | : Sine wave                                                                                                                                                                                                    |
| Distortion              | : $< 1\%$ (linear load);<br>$< 5\%$ (non-linear load)                                                                                                                                                          |
| Frequency               | : Battery mode: 50/60Hz $\pm 0.05$ Hz<br>Line mode: 50/60Hz $\pm 4$ Hz                                                                                                                                         |
| Crest Ratio             | : 3:1                                                                                                                                                                                                          |
| Efficiency              | : 89% (inverter mode)<br>97% (ECO mode)                                                                                                                                                                        |
| Overload Time (on-line) | : 100%~105%, only warning<br>105%~130%, $\geq 60$ s. Then transfer to bypass and alarm<br>130%~150%, $\geq 10$ s. Then transfer to bypass and alarm<br>>150%, $\geq 300$ ms. Then transfer to bypass and alarm |
| Connection              | : IEC C13*4                                                                                                                                                                                                    |

## **BATTERY & CHARGER**

|                          |                                                           |
|--------------------------|-----------------------------------------------------------|
| Type                     | : VRLA, Maintenance Free                                  |
| Rating                   | : 12V9Ah                                                  |
| Quantity                 | : 2 pieces                                                |
| Nominal DC Voltage       | : 24VDC                                                   |
| Floating Charging        | : 13.65*2VDC $\pm 0.15$ for every battery                 |
| Backup Time              | : >3.5 minutes at full load;<br>10.5 minutes at half load |
| Protection               | : Fast-acting Fuse                                        |
| Initial charging current | : 1.5A                                                    |
| Recharge Time            | : 4 Hours recharge to 90%                                 |

|                                                                                   |                                       |  |                                           |
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## **TRANSFER TIME**

|                                   |                                                                       |
|-----------------------------------|-----------------------------------------------------------------------|
| Utility Power Failure             | : 0 ms                                                                |
| Battery to Utility Power Mode     | : 0 ms                                                                |
| Bypass to Inverter and vice versa | : < 4 ms                                                              |
| Auto Transfer                     | : Automatically retransfer to Inverter mode after overload is cleared |

## **INTERFACE**

|                           |                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------|
| Control Panel             | : Power On/Off; Test/Alarm silence                                                              |
| LCD display               | : Operating mode, load information, battery information, Input & output information, fault code |
| Diagnostics               | : Full system self test on power up                                                             |
| DC power-on function      | : Yes                                                                                           |
| Auto-restart              | : Default "YES", can be set to "NO" through Winpower software                                   |
| Audible Alarm             |                                                                                                 |
| - Battery mode            | : Beep once every 4 seconds                                                                     |
| - Battery low             | : Beep once every second                                                                        |
| - Overload                | : Beep twice every seconds                                                                      |
| - Fault                   | : Beeps continuously                                                                            |
| - Bypass mode             | : Beep once every 2 minutes                                                                     |
| Communications            |                                                                                                 |
| - DB-9 Port               | : RS232 interface                                                                               |
| - Intelligent Slot (SNMP) | : Available<br>(Options: WebPower(NMC), CMC or AS400 Card)                                      |
| Cooling                   | : Force air cooling                                                                             |

|                                                                                   |                                       |  |                                           |
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## **ENVIRONMENTAL**

|                       |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| Operating Temperature | : 0 ~ 40°C                                                              |
| Operating Humidity    | : < 95% non-condensing                                                  |
| Storage Temperature   | : -25 °C ~ 55 °C                                                        |
| Audible Noise         | : 40dB at 1 meter distance in front of the UPS<br>(Buzzer not included) |

## **STANDARD & SAFETY**

|                                 |                              |
|---------------------------------|------------------------------|
| SAFETY                          | : IEC/EN 62040-1             |
| EMI                             |                              |
| Conducted Emission              | : IEC/EN 62040-2 Category C2 |
| Radiated Emission               | : IEC/EN 62040-2 Category C2 |
| Harmonic Current                | : IEC/EN 61000-3-2           |
| Voltage Fluctuation and Flicker | : IEC/EN 61000-3-3           |

### **EMS**

|                       |                            |
|-----------------------|----------------------------|
| ESD                   | : IEC/EN 61000-4-2 Level 3 |
| RS                    | : IEC/EN 61000-4-3 Level 3 |
| EFT                   | : IEC/EN 61000-4-4 Level 4 |
| SURGE                 | : IEC/EN 61000-4-5 Level 4 |
| CS                    | : IEC/EN 61000-4-6 Level 3 |
| MS                    | : IEC/EN 61000-4-8 Level 4 |
| Voltage Dips          | : IEC/EN 61000-4-11        |
| Low Frequency Signals | : IEC/EN 61000-2-2         |

## **MECHANICAL FEATURES**

|                           |                      |
|---------------------------|----------------------|
| Dimensions W x D x H (mm) | : 144 x 356 x 228 mm |
| Weight (kg)               | : 9.2kg              |

Specifications are subject to change without notice.