


|   |   |                                   |
|---|---|-----------------------------------|
|  | <b>PRODUCT SPECIFICATIONS</b>   | REF. No. : 614-02117XS1-02        |
|   | PRODUCT SERIES : Santak Castle Series<br>MODEL : C6K-LCD<br>TECHNOLOGY : Online double conversion | : B-WR1-235-217A<br>: EN-00006-01 |
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## **INPUT**

|                                 |   |
|---------------------------------|---|
| Nominal Voltage                 | : 220VAC  |
| Phase                           | : Single phase with ground (2W + G)   |
| Power Factor                    | : $\geq 0.99$   |
| Voltage Range                   | : 120 ~ 275VAC  |
| Volt. Low Detection / Comeback  | : 120VAC / 140VAC, at load $\leq 50\%$ ;<br>150VAC / 165VAC, at $50\% < \text{load} \leq 70\%$ ;<br>165VAC / 180VAC, at $70\% < \text{load} \leq 90\%$ ;<br>185VAC / 200VAC, at load $> 90\%$ ; |
| Volt. High Detection / Comeback | : 275VAC / 260VAC, at load $0\% < \text{load} < 110\%$  |
| Nominal Frequency               | : 50/60Hz   |
| Frequency Range                 | : 40 ~ 70Hz   |
| Freq. Low Detection / Comeback  | : 40Hz / 40.5Hz   |
| Freq. High Detection / Comeback | : 70Hz / 69.5Hz   |
| THDi                            | : $< 3\%$ (With R full load at Line normal)   |
| Nominal RMS Current             | : 26A   |
| Protection                      | : 40Amp Breaker   |
| Connection                      | : Terminal Block  |

## **BYPASS**


|                            |  |
|----------------------------|--|
| Output before UPS power-on | : YES  |
| Voltage Range              | : 187 ~ 264VAC   |
| Bypass Low Detection       | : Default 187VAC, can be set to 187 ~ 228VAC through Winpower software |
| Bypass Low comeback        | : Bypass Low voltage detected plus 10VAC                               |
| Bypass High detection      | : Default 264VAC, can be set to 210 ~ 264VAC through Winpower software |
| Bypass High comeback       | : Bypass High voltage detected minus 10VAC                             |
| Protection                 | : 40Amp Breaker  |

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

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## **OUTPUT**

|                                  |   |
|----------------------------------|---|
| Power Capacity                   | : 6kVA / 5.4kW  |
| Power Factor                     | : 0.9   |
| Voltage                          | : 220/230/240VAC  |
| Voltage Regulation               | : $\pm 1\%$   |
| Waveform                         | : Pure sinewave   |
| Voltage Distortion               | : $\leq 2\%$ (linear load)<br>$\leq 4\%$ (non-linear load)  |
| Frequency                        | : Battery mode: 50/60Hz $\pm 0.2$ Hz<br>Line mode: Synchronized to 50/60Hz $\pm 4$ Hz   |
| Slew Rate                        | : $< 1.0$ Hz/sec  |
| Phase Lock Error to Line         | : $< 2^\circ$   |
| Transient Recovery               | : 60ms (R load from 0% to 100% and vice versa)  |
| Current Crest Ratio              | : 3:1   |
| Efficiency                       | : Up to 90% at battery mode<br>Up to 94% at line mode<br>Up to 98% at ECO mode  |
| Overload Capability              | : 105%-125%, load transfer to bypass mode after 10 min (0-30°C) or 1 minutes (30-40°C);<br>125%-150%, load transfer to bypass mode after 30s;<br>Over 150%, load transfer to bypass after 0.5s; |
| Nominal Output Current           | : 27A   |
| Short Circuit Protection         | : Cut off output within 100ms in Line mode & Battery mode;<br>Input Breaker in Bypass mode  |
| Bypass Output without turning on | : Yes   |
| Maintenance Bypass Switch        | : Option  |
| Connection                       | : Terminal Block  |

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## **BATTERY AND CHARGER**

|                          |   |
|--------------------------|---|
| Type                     | : VRLA, Maintenance Free  |
| Rating                   | : 12V7Ah  |
| Quantity                 | : 15 pieces   |
| Nominal DC Voltage       | : 180VDC  |
| Backup Time              | : > 4 minutes at 100% load<br>6 minutes at 75% load<br>10 minutes at 50% load |
| Auto Shutdown Voltage    | : 165VDC $\pm$ 2VDC when load < 1kW<br>143VDC $\pm$ 2VDC when load > 1kW      |
| Protection               | : Fast-acting Fuse  |
| Rated Charge Voltage     | : 202.5VDC  |
| Voltage Initial Charging | : 1.2A  |
| Current Recharge Time    | : 7 Hours recharge to 90%   |
| Over Voltage Protection  | : 220.5VDC (1 $\pm$ 1%VDC)  |
| Leakage Current          | : < 0.5mA   |
| Connection               | : Built-in  |

## **INTERFACE**

|                           |   |
|---------------------------|---|
| Control Panel             | : Power On/Off, Self-test/Alarm silence   |
| Indicators                | : Graphical LED & LCD display:<br>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<br>Battery low: Beeps every second<br>Overload: Beeps twice every second<br>Bypass: Beeps every two minutes<br>Fault: Beeps continuously |
| Communications            |   |
| - DB-9 Port               | : RS232 interface   |
| - Intelligent Slot (SNMP) | : Available<br>(Options : NMC, AS400 or CMC Card)   |
| - Parallel Port           | : Option  |
| -Emergency Power Off(EPO) | : Option  |
| Cooling                   | : Force air cooling<br>Fan speed depends on the operation mode and load level   |

