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|--|-----------------------------|
| <b>PRODUCT SPECIFICATIONS</b>                        | REF. No.:<br>A9104-12228-00 |
| PRODUCT SERIES : Castle Series<br>MODEL No. : C6K(e) | No OF PAGE(S):              |
|  | 1 OF 4                      |

### INPUT

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Nominal Voltage                 | : 220VAC                            |
| Phase                           | : Single phase with ground (2W + G) |
| Power Factor                    | : $\geq 0.98$                       |
| Voltage Range                   | : 176 ~ 276VAC                      |
| Volt. Low Detection / Comeback  | : 176VAC / 185VAC                   |
| Volt. High Detection / Comeback | : 276VAC / 266VAC                   |
| Nominal Frequency               | : 50Hz                              |
| Frequency Range                 | : 46 ~ 54Hz                         |
| Freq. Low Detection / Comeback  | : 46Hz / 46.5Hz                     |
| Freq. High Detection / Comeback | : 54Hz / 53.5Hz                     |
| Nominal RMS Current             | : 23A                               |
| Protection                      | : 32Amp Breaker                     |
| Connection                      | : Terminal Block                    |

### OUTPUT

|                     |   |
|---------------------|---|
| Power Capacity      | : 6kVA / 4.2kW  |
| Power Factor        | : 0.7   |
| Voltage             | : 220VAC  |
| Voltage Regulation  | : $\pm 1\%$   |
| Waveform            | : Sine wave   |
| Voltage Distortion  | : $\leq 2\%$ (Full linear load)<br>$\leq 6\%$ (Full RCD load)   |
| Frequency           | : Battery mode: 50Hz $\pm 0.05$ Hz<br>Line mode: Same as Input  |
| Transient Response  | : $\leq 5\%$ (R load from 100% to 50% and vice versa)   |
| Transient Recovery  | : $\leq 60$ ms  |
| Current Crest Ratio | : 3:1   |
| Efficiency          | : $> 88\%$  |
| Overload Capability | : Line mode:<br>105% ~ 130% for 10 minutes then transfer to bypass,<br>automatically retransfer to Inverter mode after overload is<br>cleared.<br>$\geq 130\%$ for 1 second then transfer to bypass mode, and cut<br>off output in 1 minute |

|                                |                             |
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## OUTPUT

|                                  |  |
|----------------------------------|--|
|                                  | Battery mode:  |
|                                  | 105% ~ 130% for 10 seconds   |
|                                  | ≥ 130% for 1 second  |
| Short Circuit Protection         | : Cut off output within 300ms in Line mode & Battery mode;<br>Input Breaker in Bypass mode |
| Bypass Output without turning on | : Yes  |
| Connection                       | : Terminal Block   |

## BATTERY AND CHARGER

|                           |   |
|---------------------------|---|
| Type                      | : Sealed, Maintenance Free, Lead-Acid (Panasonic) |
| Rating                    | : 12V7.2Ah  |
| Quantity                  | : 20 pieces                                       |
| Nominal DC Voltage        | : 240VDC  |
| Backup Time               | : 7 minutes                                       |
| Battery Low Alarm Voltage | : 220VDC ±3VDC                                    |
| Auto Shutdown Voltage     | : 200VDC ±3VDC                                    |
| Protection                | : Fast-acting Fuse                                |
| Floating Charging Voltage | : 274VDC ±1%                                      |
| Initial Charging Current  | : 2A  |
| Recharge Time             | : 7 Hours recharge to 90%                         |
| Over Voltage Protection   | : 290VDC  |
| Leakage Current           | : < 0.5mA   |
| Connection                | : Built-in  |

## TRANSFER TIME

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

|                                |                             |
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### **INTERFACE**

|                           |   |
|---------------------------|---|
| Control Panel             | : Power On/Self-test/Alarm silence, Power Off   |
| Indicators                | : Graphical LED display:<br>Line, Battery, Bypass, Inverter, Load level/Battery level,<br>Fault   |
| Diagnostics               | : Full system self test on power up   |
| Auto Restart Function     | : Auto restart while AC source restored after discharge<br>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 : WebPower, AS400 or Winpower CMC)  |
| Cooling                   | : Force air cooling   |

### **ENVIRONMENTAL**

|                       |                             |
|-----------------------|-----------------------------|
| Operating Temperature | : 0 ~ 40°C                  |
| Storage Temperature   | : -15°C ~ 40°C              |
| Humidity              | : 20% ~ 90%, Non-condensing |
| Altitude              | : < 1000 m                  |

### **STANDARD & SAFETY**

|                            |   |
|----------------------------|---|
| Audible Noise              | : ≤ 55dB, at 1-meter distance in front of the front panel<br>(Exclusive of Buzzer)  |
| EMS                        | : IEC 61000-4-2 Level 4 (ESD)<br>IEC 61000-4-3 Level 3 (RS)<br>IEC 61000-4-4 Level 4 (EFT)<br>IEC 61000-4-5 Level 4 (Surge) |
| EMI (Conducted & radiated) | : IEC62040-2, comply with I/P current ≥25A  |
| Safety                     | : IEC62040-1  |

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**MECHANICAL FEATURES**

## Unit

Dimensions: W x H x D (mm) : 260 x 717 x 570 mm

Weight (Kg) : 84 Kg

## Packaging

Dimensions: W x H x D (mm) : 430 x 845 x 700 mm

Weight (Kg) : 93 Kg

Specifications are subject to change without notice.