

<b>PRODUCT SPECIFICATIONS</b>	REF. No.: A9104-32450-00
PRODUCT SERIES : Castle Series N+X MODEL No. : C10K	No OF PAGE(S):
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### **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	: 37A
Protection	: 50Amp Breaker
Connection	: Terminal Block

### **OUTPUT**

Power Capacity	: 10kVA / 7kW
Power Factor	: 0.7
Voltage	: 220VAC
Voltage Regulation	: $\pm 1\%$
Waveform	: Sine wave
Voltage Distortion	: $\leq 2\%$ (Full linear load) $\leq 6\%$ (Full RCD load)
Frequency	: Battery mode: 50Hz $\pm 0.05$ Hz 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	: $> 88\%$

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## OUTPUT

Overload Capability	: Line mode: ≥ 105% for 10 minutes then transfer to bypass, automatically retransfer to Inverter mode after overload is cleared. ≥ 130% for 1 second then transfer to bypass mode, and cut off output in 1 minute Battery mode: ≥ 105% for 10 seconds ≥ 130% for 1 second
Short Circuit Protection	: Cut off output within 300ms in Line mode & Battery mode; Input Breaker in Bypass mode
Bypass Output without turning on :	Yes
Maintenance Bypass Switch	: Available
Connection	: Terminal Block

## BATTERY AND CHARGER

Type	: Sealed, Maintenance Free, Lead-Acid (Panasonic)
Rating	: 12V45W (12V9Ah)
Quantity	: 20 pieces
Nominal DC Voltage	: 240VDC
Backup Time	: 5 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	: 8 Hours recharge to 90%
Over Voltage Protection	: 290Vdc
Leakage Current	: < 0.5mA
Connection	: Built-in

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### **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

### **INTERFACE**

Control Panel	: Power On/Self-test/Alarm silence, Power Off
Indicators	: Graphical LED 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 : WebPower, AS400 or Winpower CMC)
- Parallel Port	: DB-25 male and female port available for parallel connection
Cooling	: Force air cooling

### **PARALLEL FUNCTION**

Number of UPS in Parallel	: Up to 3 units
Un-sharing Current Ratio	: < 3% at full load

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### **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 (Exclusive of Buzzer)
EMS	: IEC 61000-4-2 Level 4 (ESD) IEC 61000-4-3 Level 3 (RS) IEC 61000-4-4 Level 4 (EFT) IEC 61000-4-5 Level 4 (Surge)
EMI (Conducted & radiated)	: IEC62040-2, comply with I/P current ≥25A
Safety	: IEC62040-1

### **MECHANICAL FEATURES**

Unit	
Dimensions: W x H x D (mm)	: 260 x 717 x 570 mm
Weight (Kg)	: 93 Kg
Packaging	
Dimensions: W x H x D (mm)	: 430 x 845 x 700 mm
Weight (Kg)	: 101 Kg

Specifications are subject to change without notice.