
	PRODUCT SPECIFICATIONS	REF. No.: B-WR1-235-217A
	PRODUCT SERIES : Castle Series	No OF PAGE(S):
	MODEL No. : 3C15KS-LCD	2 OF 4

OUTPUT

Power Capacity	:	15kVA / 13.5kW
Power Factor	:	0.9
Voltage	:	220VAC, can be set 230/240VAC
Voltage Regulation	:	±1%
Waveform	:	Sine wave
Voltage Distortion	:	≤ 2% (Full linear load) ≤ 4% (Full RCD load)
Frequency	:	Battery mode: 50Hz ±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 93.5% at battery model Up to 94% at line mode Up to 98% at ECO mode
Overload Capability	:	105% < Load ≤ 125%, transfer to bypass mode after 10 min (0 ₀ ³⁰) or 1 min (30 ~ 0 125% < 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	:	68A
Short Circuit Protection	:	Cut off output within 100ms in Line mode & Battery mode; 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	: Valve Regulated Lead Acid (VRLA), Maintenance Free
Rating	: Option
Quantity	: 20 pieces per string (N), (adjustable: 16/18)
Nominal DC Voltage	: 240VDC (adjustable: 192/216VDC)
Backup Time	: Depends on the external battery capacity
Auto Shutdown Voltage	: 11VDC*N ±2VDC when load < 1kW 9.5VDC*N ± 2VDC when load > 1kW
Protection	: Fast-acting Fuse
Floating Charging Voltage	: 13.5VDC*N
Initial Charging Current	: 4A
Recharge Time	: Depends on the external battery capacity
Over Voltage Protection	: 14.7VDC*N ± 1%
Leakage Current	: < 3.5mA
Connection	: Terminal Block

INTERFACE

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

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PARALLEL FUNCTION

Parallel card : Option
Number of UPS in Parallel : Up to 3 units

TRANSFER TIME

Utility Power Failure : 0 ms
Bypass to Inverter and vice versa : 0 ms

ECO to Inverter and vice versa : < 4 ms

Auto Transfer : Automatically re-transfer to Inverter mode after overload is cleared

ENVIRONMENTAL

Operating Temperature : 0 ~ 40°C
Storage Temperature : -25°C ~ 55°C
Humidity : 20% ~ 90%, Non-condensing
Altitude : < 1000 m

STANDARD & SAFETY

Audible Noise : ≤ 50dB, at 1-meter distance in front of the front panel (Exclusive of Buzzer)
EMC : IEC/EN61000
IEC/EN62040-2
Safety : IECEN62040-1

MECHANICAL FEATURES

Unit
Dimensions: W x D x H (mm) : 248 x 500 x 616 mm
Weight (Kg) : 30.5 Kg
Packaging
Dimensions: W x D x H (mm) : 380 x 680 x 705 mm
Weight (Kg) : 35.5 Kg

Specifications are subject to change without notice.