
	PRODUCT SPECIFICATIONS	REF. No. : 614-02189-01 EN-00005-01
	PRODUCT SERIES : Santak Castle Series MODEL : 3C3PRO-160KS	Page No. 1 OF 4

INPUT

Nominal Voltage	: 220VAC / 380VAC Selectable: 230VAC / 400VAC 240VAC / 415VAC
Phase	: Three Phase with Neutral plus ground (4 wires + Ground)
Power Factor	: ≥ 0.99
Voltage Range	: 116 ~ 276VAC / 201 ~ 478VAC, (- 50% + 20%) 100% Load: 190 ~ 276 VAC / 330 ~ 478VAC, (- 15%, + 20%) 50% Load: 116 ~ 276VAC / 201 ~ 478VAC, (- 50%, + 20%)
Nominal Frequency	: 50/60Hz (Auto Sensing)
Frequency Range	: 42 ~ 72Hz
THDi	: < 5%
AC Input Full Load Current	: 248A
Protection	: Fuse & Breaker
Connection	: Terminal block

BYPASS

Nominal Bypass Voltage	: 220VAC / 380VAC Selectable: 230VAC / 400VAC 240VAC / 415VAC
Phase	: Three Phase with Neutral plus ground (4wires + Ground)
Bypass Voltage Range	: 220VAC / 380VAC $\pm 15\%$, Default Can be configured: $\pm 10\% \sim \pm 20\%$
Frequency Range	: 50/60Hz ± 4 Hz, Can be configured: ± 1 Hz $\sim \pm 4$ Hz
Protection	: Internal Fuses
Maintenance Bypass Switch	: N/A
Connection	: Terminal block
Auto transfer to Bypass mode when UPS is abnormal	
Or manual transfer to bypass mode via Maintenance Bypass Switch (MBS)	


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OUTPUT

Power Capacity	: 160kVA / 144kW
Power Factor	: 0.9
Nominal Voltage	: 220/380VAC, Configurable: 230/400VAC, 240/415VAC
Voltage Regulation	: $\pm 1\%$
Phase	: Three Phase with Neutral plus ground (4 wires + Ground)
Waveform	: Sine wave
Voltage Distortion	: < 2% for Linear load, < 5% for Non-linear load
Frequency	: Battery mode: 50/60Hz ± 0.5 Hz Line mode: Synchronized to 50/60Hz ± 4 Hz
Unbalanced load	: 100%
Load Crest Ratio	: 3:1
Efficiency	: Up to 94% in double-conversion mode Up to 98% in ECO mode
Overload Capability	: 60 min for 102% ~ 110% load 10 min for 111% ~ 125% load 1 min for 126% ~ 150% load 150 ms for >151% load
AC Output Full Load Current	: 231A (With the output voltage configured 230/400VAC)
Connection	: Terminal block

BATTERY & CHARGER

Nominal DC Voltage	: Default 480Vdc (240 Cells), configurable from 432Vdc (216 Cells) to 480Vdc (240 Cells)
Charge Voltage	: ABM Flood Voltage 2.30V/Cell Battery Constant Float Voltage 2.28V/Cell Battery Opportunity Charge Voltage 2.21V/Cell
Battery Low Alarm Voltage	: 1.81V/Cell
Battery Low Shutdown Voltage	: 1.75V/Cell
Battery Absolute Low Shutdown	: 1.67V/Cell
Over Voltage Protection	: 2.45V/Cell

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BATTERY & CHARGER


Charge Current : Can be set: 0 ~ 80A
Protection : Internal Fuses
Connection : Terminal block

TRANSFER TIME

Line mode to Battery mode : 0ms
Bypass to Inverter and vice versa : 0ms
ECO mode to Line mode : < 4ms

INTERFACE & CONTROL

Indicators : LED & LCD display
DC Power Start : Yes
Communications Port : RS232
Intelligent Slot * 2
Building Alarm Ports
EPO : Available
Parallel : Available up to 4 units
Cooling : Force air cooling

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ENVIRONMENTAL

Operating Temperature	: 0 ~ 40°C
Storage Temperature	: -25°C ~ 55°C
Humidity	: 5% ~ 95%, Non-condensing
Altitude	: < 1000 m
IP Rating	: IP20

STANDARD & SAFETY

Audible Noise	: ≤ 70dB, at 1-meter distance in front of the UPS (Buzzer not included)
EMC	: IEC 61000-4 IEC 62040-2
EMI	: EN5550022/EN55024
Safety	: IEC 62040-1

MECHANICAL FEATURES

Unit

Dimensions: W x D x H (mm)	: 600 x 830 x 1876 mm
Weight (kg)	: 457kg

Packaging

Dimensions: W x D x H (mm)	: 800 x 1050 x 2040 mm
Weight (kg)	: 525 kg

Specifications are subject to change without notice.