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|  | PRODUCT SPECIFICATIONS | REF. No. : 614-02189-01 EN-00005-01 |
| | PRODUCT SERIES : Santak Castle Series MODEL : 3C3PRO-100KS | 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 | : 154A |
| Protection | : Internal Fuses |
| Connection | : Terminal block |

BYPASS

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|---|---|
| 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 | : Optional |
| 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 | : 100kVA / 90kW |
| 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 | : 144A (With the output voltage configured 230/400VAC) |
| Connection | : Terminal block |

BATTERY & CHARGER

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|-------------------------------|--|
| 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 ~ 40A
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

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|---------------|--|
| Audible Noise | : ≤ 68dB, 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

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|----------------------------|-----------------------|
| Dimensions: W x D x H (mm) | : 600 x 800 x 1876 mm |
| Weight (kg) | : 283kg |

Packaging

| | |
|----------------------------|-----------------------|
| Dimensions: W x D x H (mm) | : 800 x 1020x 2040 mm |
| Weight (kg) | : 351 kg |

Specifications are subject to change without notice.