ECOTEK CANADA®	PRODUCT SPECIFICATIONS	REF. No. : 614-40319-00
	PRODUCT SERIES : Santak Castle Series MODEL : 3C3 HD-120K TECHNOLOGY : Online double conversion	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 ~ 276VAC / 330 ~ 478VAC (- 15%, + 20%), 50% Load: 116 ~ 276VAC / 201 ~ 478VAC (- 50%, + 20%)
Nominal Frequency	: 50/60Hz, configurable
Frequency Range	: 42 ~ 70Hz
THDi	: <3%
AC Input Full Load Current (Plus Battery charging)	: 198A
Protection	: Fuse & Breaker
Connection	: Terminal block

BYPASS

Nominal Bypass Voltage	: 220VAC / 380VAC Selectable: 230VAC / 400VAC 240VAC / 415VAC
Phase	: Three Phase with Neutral plus ground (4 wires + Ground)
Bypass Voltage Range	: 220VAC / 380VAC ± 15% (Default) Max selection range ± 20%
Protection	: Fuse & Breaker
Maintenance Bypass Switch	: Available
Connection	: Terminal block

Auto transfer to Bypass mode when UPS is abnormal

Or manual transfer to bypass mode via Maintenance Bypass Switch (MBS)

OUTPUT

Power Capacity	: 120kVA /120kW
Power Factor	: 1
Nominal Voltage	: 230/400VAC, Configurable: 220/380VAC, 240/415VAC
Voltage Regulation	: < 1% at steady state
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	: 50/60Hz, configurable
Unbalanced load	: 100%
Load Crest Ratio	: 3:1
Efficiency	: Up to 96% in double-conversion mode Up to 99% 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	: 174A
Connection	: Terminal block

BATTERY & CHARGER

Type	: VRLA, Gel, NiCad, Lithium-ion
Nominal DC Voltage	: Default 432VDC, adjust from 320VDC to 607VDC
Charging configuration	: ABM or float charge
Capacity range	: Option (Selected according to the required backup time)
Backup time	: Depends on the external battery capacity
Charge Voltage	: ABM Fload Voltage 2.30V/Cell Battery Constant Float Voltage 2.28V/Cell Battery Opportunity Charge Voltage 2.1V/Cell
Battery Low Alarm Voltage	: 1.81V/Cell
Battery Low Shutdown Voltage	: 1.75V/Cell
Discharge end off voltage	: 1.67V/Cell
Over Voltage Protection	: 2.45V/Cell
Charging current	: 120A, configurable
Protection	: Internal Fuses
Connection	: Terminal block

TC = 25°C, Unless otherwise noted

TRANSFER TIME

Line mode to Battery mode	: 0ms
Bypass to Inverter and vice versa	: 0ms
ECO mode to Line mode	: 2ms ~ 4ms

INTERFACE & CONTROL

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

ENVIRONMENTAL

Operating Temperature	: 0–40°C , the recommended operating temperature is 25°C The use shall be derated at 40–50°C
Storage Temperature	: -15°C ~ 55°C (placed in the protective packaging materials)
Humidity	: 5% ~ 95%, Non-condensing
Altitude	: < 1000 m

STANDARD & SAFETY

Safety	: IEC 62040-1
EMC	: IEC 62040-2

MECHANICAL FEATURES

Unit

Dimensions: W x D x H (mm)	: 500 x 850 x 1230 mm
Weight (kg)	: 149 kg

Packaging

Dimensions: W x D x H (mm)	: 800 x 1100 x 1407 mm
Weight (kg)	: 162 kg