	<b>PRODUCT SPECIFICATIONS</b>	REF. No. : EN-VN-CL010825-3C3 HD 20-200K
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	MODEL : 3C3 HD-80K TECHNOLOGY : Online double conversion	1 OF 4

### **INPUT**

Nominal Voltage	: 230VAC / 400VAC Selectable: 220VAC / 380VAC 240VAC / 415VAC
Phase	: Three Phase with Neutral plus ground (4 wires + Ground)
Power Factor	: $\geq 0.99$
Voltage Range (Rectifier input)	: 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)	: 144A (230/400VAC)
Protection	: Fuse & Breaker
Connection	: Terminal block


### **BYPASS**

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

Auto transfer to Bypass mode when UPS is abnormal and Overload < 110%


Overload bypass: 60 min for 110% ~ 125%; 10 min for 125% ~ 150%; 1 min for >150%

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

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## **OUTPUT**

Power Capacity	: 80kVA / 80kW
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	: True 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	: 114A (230/400VAC)
Connection	: Terminal block

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### **BATTERY & CHARGER**


Type	: 12VDC - VRLA, Gel, NiCad, Lithium-ion
Nominal DC Voltage	: Default 432VDC, adjust from 320VDC to 607VDC
VRLA 12V quantity	: 36pcs, adjustable: from 32 to 44pcs (192 to 264 cell)
Capacity range	: Option (Selected according to the required backup time)
Backup time	: Depends on the external battery capacity
Charging configuration	: ABM or float charge
Charge Voltage	: ABM Flood 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	: 100A, configurable
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	: < 2ms

### **INTERFACE & CONTROL**

Indicators	: LED & 5" Color touch screen LCD
Software	: Option: WebPower (NMC Card)
DC Power Start	: Yes
Communications Port	: RS232 Intelligent Slot * 2 (Options: NMC Card, CMC or AS400 Card) Building Alarm Ports Dry contact
EPO	: Available
Parallel	: Available up to 4 units
Cooling	: Force air cooling

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## **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
IP Rating	: IP20

## **STANDARD & SAFETY**

Audible Noise (Within a distance of 1m)	: 68dB, per ISO 7779
Safety	: IEC 62040-1, IEC 60950-1
EMC, Emissions	: IEC 62040-2 2016
EMC electromagnetic susceptibility	: IEC 61000-2-2 (Low-frequency conducted) IEC 61000-4-2 (ESD) IEC 61000-4-3 (RF electromagnetic field) IEC 61000-4-4 (Electrical Fast Transient/Bursts Immunity Test) IEC 61000-4-5 (Surge) IEC 61000-4-6 (Conducted RF common mode) IEC 61000-4-8 (Power frequency magnetic field) IEC 61000-4-11 (Voltage dips and Voltage interruptions)

## **MECHANICAL FEATURES**

### Unit

Dimensions: W x D x H (mm) : 330 x 690 x 975 mm

Weight (kg) : 90 kg

### Packaging

Dimensions: W x D x H (mm) : 585 x 880 x 1148 mm

Weight (kg) : 131 kg

Specifications are subject to change without notice.