

CHM-T-31-20KVA-LR

Type	Configuration	Phase	Rated Power	Battery
Online Double Conversion	Tower	3:1 (1:1)	20kVA (20kW)	External

Physical

Dimensions W x D x H (mm)	250 x 580 x 655
Weight (kg)	38

Input

Input Connection	Hardwired
Rated Nominal Input Voltage	380/400/415V AC (220/230/240V AC 1 Phase)
Permissible Input Voltage	208 to 478V AC (120 to 276V AC 1 Phase)
Frequency	40 to 70Hz (50 Hz/60Hz Auto-Sensing)
Power Factor	>0.99
Generator Compatible	Yes
Input Harmonic Current	Less than 3%

Output

Output Connection	Hardwired
Nominal Output Voltage	220/230/240V AC Pure Sinewave
Voltage Regulation	+/-1%
Power Factor	1.0
Output frequency (Battery)	50/60Hz +/-0.1%
Crest Factor	3:1
Harmonic Distortion THDV	< 2% Linear Load, <5% Non-Linear Load
Transfer time - Inverter to Bypass	0msec
Transfer time - Mains to Battery	0msec
Bypass Voltage Range	-45 to +20% settable
Bypass Frequency Range	+/-10% settable
Efficiency	Up to 94.5%

Battery

Battery Voltage (settable)	+/-120V DC (240V DC nominal - 16/18/20 battery options)
External Battery Module (EBM)	BCAB-T-40-120V-N (2 x 20 x BAT-12V9AH)
Battery Type	40 x BAT-12V9AH VRLA
External Battery Module (EBM)	BCAB-T-80-120V-N (4 x 20 x BAT-12V9AH)
Battery Type	80 x BAT-12V9AH VRLA
Maximum Charge Current	18A max

Colour LCD Display

Display Parameters	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Internal Temperature, Remaining Backup Time
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Standard Features

Operation Modes	Line Mode, Battery Mode, ECO Mode, Bypass Mode
Communications	USB , RS232/485 Interface, Expansion Slot, Parallel Port, REPO, Ethernet SNMP
Protections	Short Circuit, Overload, Over Temp, Battery Over Charge/Discharge, Low Output Voltage, Fan Fault Alarm, EPO Emergency Power Off (Hardware Link)
Parallel Port	N+X Redundancy capability (Up to 4 Units)
Relay Card (optional)	UPS-RC 5 Relay Output Card with Remote Control Feature

Environment

Operating Temperature	0 to 40C (Storage -25 to 55C)
Humidity Range	0 to 95% at 40C (Non-Condensing)
Conformal Coated PCBs	Standard
Audible Noise	<58dB at 1 metre

Approvals

Safety	IEC/EN 62040-1, IEC/EN 62477-1, ROHS Compliant
EMC	IEC/EN 602040-2, IEC 61000-4-(2,3,4,5,6,8,11), IEC61000-2-2)