



Segment LCD



TFT colourful LCD



Battery cabinet  
(Optional)



Optimized battery configuration  
7Ah/9Ah (12V)

## Features

- LCD support Rack/Tower convertible design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 208~478Vac
- Wide input frequency range 40~70Hz
- Optimization battery group, the quantity of battery: 30~50pcs is settable
- Maximum charging current up to 20A (Settable) ·Dual input source
- Support 3/3 and 3/1 and 1/1 operation ·Generator compatible
- ECO mode operation for energy saving
- Cold start
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz Frequency converter mode
- The output can meet 100% unbalanced load
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- RS232, RS485, Parallel, Intelligent Slot(SNMP card/ Relay card (Optional)), BMS (Optional), EPO port, Output port, MAINTAIN-AUXSWS port
- PDU module is optional



Parallel cable



SNMP



Relay card

## Technical Specifications

Model	MC310200RB
Capacity	20kVA
<b>Input</b>	
Nominal voltage	380/400/415Vac (3Ph+N+PE) ; 220/230/240Vac (L+N+PE)
Input voltage range	208~478Vac
Frequency range	40~70Hz (50/60Hz Auto-Sensing)
Power factor	≥0.99
Bypass voltage range	Max.voltage:220V:+25% (Optional+10%,+15%,+20%) 230V:+20% (Optional+10%,+15%) 240V:+15% (Optional+10%) Min.voltage:-45% (Optional-20%,-30%)
Harmonic distortion (THDi)	≤3% Linear load
<b>Output</b>	
Output voltage	380/400/415Vac (3Ph+N+PE) ; 220/230/240Vac (L+N+PE)
Power factor	1.0
Voltage regulation	±1%
Output frequency (Line Mode)	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)
Output frequency (Bat. Mode)	(50/60±0.1%)Hz
Crest factor	3:1
Harmonic distortion (THDv)	≤3% Linear load ; ≤5% Non linear load
Transfer time AC mode to Bat.Mode	0ms
Transfer time Inverter to Bypass	0ms
Output waveform	Pure Sinewave
Overload (Line Mode)	Load≤110%: last 60min; ≤125%: last 10min; ≤150%: last 1min; ≥150% turn to bypass mode immediately
Overload (Bat. Mode)	Load≤110%: last 10min; ≤125%: last 1min; ≤150%: last 5s; ≥150% shut down UPS immediately
Overload (Bypass Mode)	Breaker ( Load < 125%, long-term operation)
<b>Efficiency</b>	
Efficiency	up to 95%
<b>Battery</b>	
Battery voltage	±180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional)
Charge Current (charge current can be set according to battery capacity installed)	20A Max.
<b>Physical</b>	
Dimension W x D×H (mm)	443 x 580 x 131(3U)
Net weight (kg)	32
<b>Environment</b>	
Operating temperature	0°C~40°C
Storage temperature	-25°C~55°C
Humidity range	0~95% (Non-condensing)
Altitude	<1500m,derating required when>1500m
Noise level	<58dB
<b>Standards</b>	
Safety	IEC/EN62040-1,IEC/EN62477-1
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8

Specifications are subject to change without prior notice.

Model	MC RB40240N
<b>Battery System</b>	
Battery type	VRLA (Lead acid maintenance free battery)
Typical battery recharging time	6~8 hours (to 90% of full capacity)
Typical battery life	3~5 years, depend on discharging cycle and ambient temperature
System voltage	±240Vdc
Battery quantity	1* ±20 PCS
Capacity	7Ah/9Ah (12V)
<b>Physical</b>	
Dimension W x D x H (mm)	443 x 861.5 x 175 (4U)
Net weight (kg)	114/123
<b>Environment</b>	
Safety	CE
Operating environment	0°C~40°C
Relative humidity	0~95% (Non condensing)
Noise level	<40dB at 1 Meter

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Remark: MC RB40240N "MC" means series; "RB" means Battery Rack; "40" means battery number inside the Rack; "240" means the battery system voltage; "N" means battery with neutral connection.