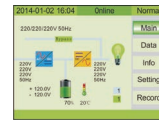
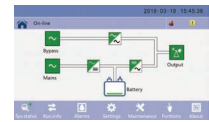


Segment LCD



TFT colourful LCD



7 inch colourful LCD



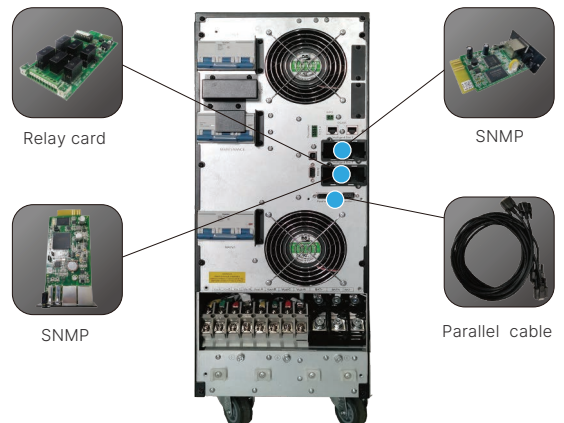
Battery cabinet (Optional)



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

## Features

- High power density 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  
10~30kVA: 16/18/20pcs (30~50pcs is optional)  
40kVA: 30~50pcs
- Maximum charging current up to 20A (Settable)
- Dual input source (optional for standard unit)
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional
- Versatile LCD human-computer interface ·Generator compatible
- ECO mode operation for energy saving ·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
- Multiple communication interface: USB, RS232, RS485, Parallel port, Dry contact, Intelligent slot, SNMP card (Optional), Relay card (Optional), Battery temperature sensor (Optional)



## Technical Specifications

Model	MC310200
Capacity	20kVA
<b>Input</b>	
Nominal voltage	380/400/415Vac (3Ph+N+PE)
Input voltage range	305~478Vac(Full load); 208~478Vac(50% load)
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%)
Frequency protection range	50/60Hz±10%
ECO range	Same as bypass
Harmonic distortion (THDi)	≤3% Linear load
<b>Output</b>	
Output voltage	380/400/415Vac (3Ph+N+PE)
Power factor	0.9
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
Transfer time (AC mode to Bat.Mode)	0ms
Transfer time (Inverter to Bypass)	0ms
Output waveform	Pure Sinewave
Crest factor	3:1
Harmonic distortion (THDv)	≤2% Linear load ; ≤5% Non linear load
Overload (AC mode)	≤110%,last 60min; ≤125%,last 10min; ≤150%,last 1min;>150% turn to bypass Immediately
Overload (Battery mode)	≤110%,last 10min; ≤125%,last 1min; ≤150%,last 5s;>150% turn to bypass Immediately
<b>Efficiency</b>	
Efficiency	up to 94.5%
<b>Battery</b>	
Battery voltage	±120Vdc (2x20pcs 12V9Ah) (2x20pcs 12V7Ah optional)
Charge Current (charge current can be set according to battery capacity installed)	2.7A
<b>Physical</b>	
Dimension W x D x H (mm)	250 x 900 x 868
Net weight (kg)	187/40
<b>Environment</b>	
Operating temperature	0°C~40°C
Storage temperature	-25°C~55°C (No battery)
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.

## Technical Specifications

### Battery Pack

Model	MC TB40120N	MC TB80120N	MC TB60180N	MC TB80240N
<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	±120Vdc	±120Vdc	±180Vdc	±240Vdc
Battery quantity	2 * ±10 PCS	4 * ±10 PCS	2 * ±15 PCS	2 * ±20 PCS
Capacity	9Ah (12V)			
<b>Physical</b>				
Dimension W x D x H (mm)	250 x 619 x 616 (wheel)	250 x 900 x 868 (with wheel)		
Net weight (kg)	122/134	244/265	200/215	244/265
<b>Environment</b>				
Safety	CE			
Operating environment	0°C~40°C			
Relative humidity	0~95% (Non condensing)			
Noise level	<40dB at 1 Meter			

Specifications are subject to change without prior notice.

Remark: MC TB80240N "MC" means series; "TB" means Battery Tower cabinet; "80" means battery number inside the cabinet; "240" means the battery system voltage; "N" means battery with neutral connection.