

**KSTAR**



MEMOPOWER-III Series  
1kVA ~ 20kVA

# COMPANY PROFILE

Founded in 1993, Shenzhen KSTAR Science & Technology Co., Ltd (Stock Code: 002518) is a National Torch Plan Key High-tech Enterprise, and also a pioneer of UPS industry and a total solution provider for Data Center Critical Infrastructure & Photovoltaic Inverter Systems in Mainland China. KSTAR is fully committed to the R&D and has been providing high-quality products with full service to over 150 countries and regions worldwide, leading the industrial development with innovation.



ISO9001



ISO14001



OHSAS18001



IECQ QC080000



Global Service Network



7 × 24 Response and Support



31 Domestic Service Centers  
172 Domestic Service Stations



National Customer Service Hotline:  
400-700-9662



17 Overseas Technical Service Centers  
40 Overseas Service Engineers



KSTAR Industrial Park at Guangming industrial Zone, Shenzhen, China



KSTAR Industrial Park at Zhongkai Hi-Tech Zone, Huizhou, China



KSTAR Industrial Park at Guanlan Fuyuan industrial Zone, Shenzhen, China



KSTAR headquarters Software Park, Keji C.Rd.2nd, Hi-Tech industrial Zone, Shenzhen, China



CATL-KSTAR SCIENCE & TECHNOLOGY CO., LTD.



Jiangxi Changxin Golden Sunshine Power Supply Co. LTD.

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# MEMOPOWER- III Series

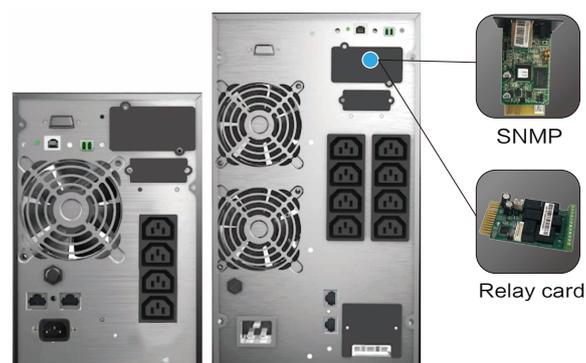
1:1 Phase PF 0.9 (PF 0.8/1.0 optional)

Power range: 1kVA ~ 3kVA



## Features

- High power density
- Online double conversion with full digital control
- Wide input voltage range: 110~300Vac
- Input power factor 0.99 with PFC
- Selectable output voltage: 208/220/230/240Vac
- Smart charger design for optimized battery performance
- Maximum charging current can be expanded to 12A (Long run unit)
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- Cold start
- Intelligent fan speed regulation
- Load segment settable (Optional)
- Versatile LCD human-computer interface
- Multiple communication interface: RS232 (USB/EPO/Relay card /SNMP card optional)
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm



Rear panel



Optional socket

## Technical Specifications:

MODEL	MP 1k H	MP 1k S	MP 2k H	MP 2k S	MP 3k H	MP 3k S						
Capacity	1000VA/900W		2000VA/1800W		3000VA/2700W							
<b>INPUT</b>												
Nominal voltage	208/220/230/240Vac											
Input voltage range	110 ~ 300Vac (176 ~ 264Vac @ 100% load)											
Power factor	≥0.99											
<b>FREQUENCY</b>												
Frequency range	40 ~ 70Hz (50/60Hz Auto-Sensing)											
<b>OUTPUT</b>												
Output voltage	208/220/230/240Vac											
Voltage regulation	±1%											
Power factor	0.9											
Output frequency	Line mode	46 ~ 54Hz or 56~64Hz										
	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										
	Inverter to Bypass	4ms (Typical)										
Output waveform	Pure Sinewave											
<b>EFFICIENCY</b>												
AC mode	88%		90%		91%							
Battery mode	85%		87%		88%							
<b>BATTERY</b>												
Battery number	2	3	2	3	4	6	4	6	6	8	6	8
Capacity (Standard unit)	9Ah/12V (7Ah/12V optional)											
Typical recharging time	4 hours (To 90% of full capacity)											
Charging voltage	27.4Vdc ± 1%	41.1Vdc ± 1%	27.4Vdc ± 1%	41.1Vdc ± 1%	54.8Vdc ± 1%	82.2Vdc ± 1%	54.8Vdc ± 1%	82.2Vdc ± 1%	82.2Vdc ± 1%	109.6Vdc ± 1%	82.2Vdc ± 1%	109.6Vdc ± 1%
Charging current (Max.)	6A/12A		1A		6A/12A		1A		6A/12A		1A	
<b>INDICATORS</b>												
LED display	Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault											
LCD display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature& Remaining battery backup time											
<b>ALARM</b>												
Battery mode	Beeping every 4 seconds											
Battery low	Beeping every second											
Overload	Beeping twice every second											
Fault	Continuously beeping											
<b>PHYSICAL</b>												
Dimension W × D × H	144 × 293 × 209mm			144 × 399 × 209mm		191 × 460 × 337mm						
Net weight	4.1kg	9.3kg	12.5kg	10kg	19.5kg	24.5kg	10kg	24.5kg	29.5kg			
<b>ENVIRONMENT</b>												
Operating temperature	0°C ~ 40°C											
Storage temperature	- 25°C ~ 55°C											
Humidity range	20~95%RH @ 0~40°C (Non condensing)											
Altitude	< 1500m, derating required when > 1500m											
Noise level	< 50dB at 1 Meter											
<b>STANDARDS</b>												
Safety	IEC/EN 62040-1, IEC/EN 62477-1											
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)											

1. When output voltage is 208Vac, need to derate to 80% of the unit capacity
2. Specifications are subject to change without prior notice
3. Data above are typical values for reference only, not as a basis for engineering design

## MP BT 1–3kVA battery pack specification

MODEL	MP BT04024C	MP BT06036C	MP BT08048C	MP BT12072C	MP BT16096C
<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	24Vdc	36Vdc	48Vdc	72Vdc	96Vdc
Charging current (Max.)	1.4A				
Battery quantity	4	6	8	12	16
Capacity	9Ah/12V (7Ah/12V optional)				
<b>PHYSICAL</b>					
Dimension W × D × H	144 × 399 × 209mm		191 × 460 × 337mm		
Net weight	13.5kg	18.5kg	28.5kg	38.5kg	47.5kg
<b>ENVIRONMENT</b>					
Safety	CE				
Operating environment	0°C ~ 40°C				
Relative humidity	0 ~ 95% (Non condensing)				
Noise level	< 40dB at 1 Meter				

1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design
3. Remark: MP BT08048C "MP" means series; "BT" means Battery Tower cabinet; "08" means battery number inside the cabinet; "048" means the battery system voltage; "C" means the cabinet coming with charger

# MEMOPOWER RT- III Series

1:1 Phase PF 0.9 (PF 1.0 optional)

Power range: 1kVA ~ 3kVA



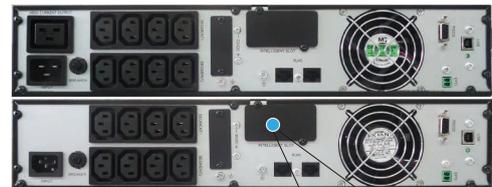
## Features

- Rack/Tower convertible design
- Online double conversion with full digital control
- Wide input voltage range: 110~300Vac
- Input power factor 0.99 with PFC
- Selectable output voltage: 208/220/230/240Vac
- Smart charger design for optimized battery performance
- Maximum charging current can be expanded to 12A (Long run unit)
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- Hot-Swappable battery design
- Cold start
- Intelligent fan speed regulation
- Load segment settable (Optional)
- Versatile LCD human-computer interface
- Multiple communication interface: RS232 (USB/EPO/Relay card /SNMP card optional)
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- PDU with maintenance bypass switch (Optional)



Multifunctional bracket

The LCD panel can be rotated



Optional socket

Relay card    SNMP

## Technical Specifications:

MODEL	MP RT 1k H	MP RT 1k S	MP RT 2k H	MP RT 2k S	MP RT 3k H	MP RT 3k S							
Capacity	1000VA/900W		2000VA/1800W		3000VA/2700W								
<b>INPUT</b>													
Nominal voltage	208/220/230/240Vac												
Input voltage range	110 ~ 300Vac (176 ~ 264Vac @ 100% load)												
Power factor	≥ 0.99												
<b>FREQUENCY</b>													
Frequency range	40~70Hz (50/60Hz Auto-Sensing)												
<b>OUTPUT</b>													
Output voltage	208/220/230/240Vac												
Voltage regulation	± 1%												
Power factor	0.9												
Output frequency	Line mode	46 ~ 54Hz or 56 ~ 64Hz											
	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											
	Inverter to Bypass	4ms (Typical)											
Output waveform	Pure Sinewave												
<b>EFFICIENCY</b>													
AC mode	89%		91%		92%								
Battery mode	85%		87%		88%								
<b>BATTERY</b>													
Battery number	2	3	2	3	4	6	4	6	6	8	6		
Capacity (Standard unit)	9Ah/12V (7Ah/12V optional)												
Typical recharging time	4 hours (To 90% of full capacity)												
Charging voltage	27.4Vdc ± 1%	41.1Vdc ± 1%	27.4Vdc ± 1%	41.1Vdc ± 1%	54.8Vdc ± 1%	82.2Vdc ± 1%	54.8Vdc ± 1%	82.2Vdc ± 1%	82.2Vdc ± 1%	109.6Vdc ± 1%	82.2Vdc ± 1%		
Charging current (Max.)	6A/12A		1A		6A/12A		1A		6A/12A		1A		
<b>INDICATORS</b>													
LED display	Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault												
LCD display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time												
<b>ALARM</b>													
Battery mode	Beeping every 4 seconds												
Battery low	Beeping every second												
Overload	Beeping twice every second												
Fault	Continuously beeping												
<b>PHYSICAL</b>													
Dimension W × D × H	440 × 325 × 86.5mm		440 × 460 × 86.5mm		440 × 600 × 86.5mm		440 × 460 × 86.5mm		440 × 600 × 86.5mm				
Net weight	5.6kg		11.3kg		14kg		10.5kg		19.5kg		25kg	11kg	26kg
<b>ENVIRONMENT</b>													
Operating temperature	0°C ~ 40°C												
Storage temperature	- 25°C ~ 55°C												
Humidity range	20 ~ 95%RH @ 0 ~ 40°C (Non condensing)												
Altitude	< 1500m, derating required when > 1500m												
Noise level	< 50dB at 1 Meter												
<b>STANDARDS</b>													
Safety	IEC/EN 62040-1, IEC/EN 62477-1												
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)												

1. When output voltage is 208Vac, need to derate to 80% of the unit capacity
2. Specifications are subject to change without prior notice
3. Data above are typical values for reference only, not as a basis for engineering design

## MP BR 1–3kVA battery pack specification

MODEL	MP BR04024C	MP BR06036C	MP BR08048C	MP BR12072C	MP BR08096C
<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	24Vdc	36Vdc	48Vdc	72Vdc	96Vdc
Charging current (Max.)	1.4A				
Battery quantity	4	6	8	12	8
Capacity	9Ah/12V (7Ah/12V optional)				
<b>PHYSICAL</b>					
Dimension W × D × H	440 × 430 × 86.5mm		440 × 550 × 86.5mm	440 × 710 × 86.5mm	440 × 550 × 86.5mm
Net weight	17.4kg	22.5kg	31.5kg	44kg	31.5kg
<b>ENVIRONMENT</b>					
Safety	CE				
Operating environment	0°C ~ 40°C				
Relative humidity	0~95% (Non condensing)				
Noise level	< 40dB at 1 Meter				

1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design
3. Remark: MP BR08048C "MP" means series; "BR" means Battery Rack; "08" means battery number inside the Rack; "048" means the battery system voltage; "C" means the Rack coming with charger

# MEMOPOWER-III Series

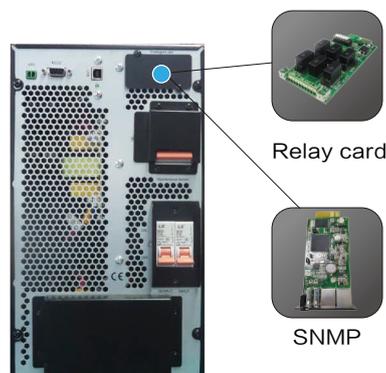
1:1 Phase PF 0.9 (PF 0.8 optional)

Power range: 6kVA ~ 10kVA



## Features

- Online double conversion with full digital control
- Optimization battery group, the quantity of battery: 16/18/20pcs (Settable)
- Wide input voltage range: 110~286Vac
- Input power factor 0.99 with PFC
- Wide input frequency range
- Selectable output voltage: 208/220/230/240Vac
- Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Multiple communication interface: RS232/USB/EPO (Relay card /SNMP card optional)
- Cold start
- Design with maintenance switch (Optional)
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm



## Technical Specifications:

MODEL	MP 6k H	MP 6k S	MP 10k H	MP 10k S
Capacity	6000VA/5400W		10000VA/9000W	
<b>INPUT</b>				
Nominal voltage	208/220/230/240Vac			
Input voltage range	110 ~ 286Vac			
Power factor	≥0.99			
Bypass voltage range	Max.voltage: 230 ~ 264Vac Min.voltage: 176 ~ 220Vac			
<b>FREQUENCY</b>				
Frequency range	40 ~ 70Hz (50/60Hz Auto-Sensing)			
<b>OUTPUT</b>				
Output voltage	208/220/230/240Vac			
Voltage regulation	± 1%			
Power factor	0.9			
Output frequency	Line mode	± 10% of the rated frequency		
	Bat. mode	(50/60 ± 0.1%)Hz		
Crest factor	3:1			
Harmonic distortion (THDv)	≤2% Linear load ≤5% Non linear load			
Transfer time	AC mode to Bat.mode	0ms		
	Inverter to Bypass	5ms (Typical)		
Output waveform	Pure Sinewave			
Overload	Line mode	Load ≤ 105% long time running; ≤ 125% last 10min; ≤ 130% last 30s; > 130% turn to bypass mode immediately		
	Bypass mode	40A (Breaker)		63A (Breaker)
Efficiency	up to 93.5%			
<b>BATTERY</b>				
Battery voltage	192/216/240Vdc (Settable), without neutral	240Vdc	192/216/240Vdc (Settable), without neutral	240Vdc
Capacity (Standard unit)	9Ah/12V (7Ah/12V optional)			
Typical recharging time	6 ~ 8 hours (To 90% of full capacity)			
Charging current	1.35A (Standard unit); Long run unit Max.current 8A (Charging current can be set according to battery capacity)			
<b>INDICATORS</b>				
LED display	Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault			
LCD display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time			
<b>ALARM</b>				
Battery mode	Beeping every 4 seconds			
Battery low	Beeping every second			
Overload	Beeping twice every second			
Fault	Continuously beeping			
<b>PHYSICAL</b>				
Dimension W × D × H	H: 191 × 460 × 337mm; S: 191 × 460 × 720mm (With wheel)			
Net weight	12kg	69.5kg	13.5kg	71kg
<b>ENVIRONMENT</b>				
Operating temperature	0°C ~ 40°C			
Storage temperature	- 25°C ~ 55°C			
Humidity range	20 ~ 95%RH @ 0 ~ 40°C (Non condensing)			
Altitude	< 1500m, derating required when > 1500m			
Noise level	< 55dB at 1 Meter		< 58dB at 1 Meter	
<b>STANDARDS</b>				
Safety	IEC/EN 62040-1, IEC/EN 62477-1			
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)			

1. When output voltage is 208Vac, need to derate to 80% of the unit capacity
2. Specifications are subject to change without prior notice
3. Data above are typical values for reference only, not as a basis for engineering design

## MP BT 6–10kVA battery pack specification

MODEL	MP BT40240
<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	2 × 20 PCS
Capacity	7Ah/9Ah (12V)
<b>PHYSICAL</b>	
Dimension W × D × H	250 × 619 × 616mm
Net weight	122kg/134kg
<b>ENVIRONMENT</b>	
Safety	CE
Operating environment	0°C ~ 40°C
Relative humidity	0 ~ 95% (Non condensing)
Noise level	< 40dB at 1 Meter

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design

3. Remark: MP BT40240 "MP" means series; "BT" means Battery Tower cabinet; "40" means battery number inside the cabinet; "240" means the battery system voltage

# MEMOPOWER Pro-III Series

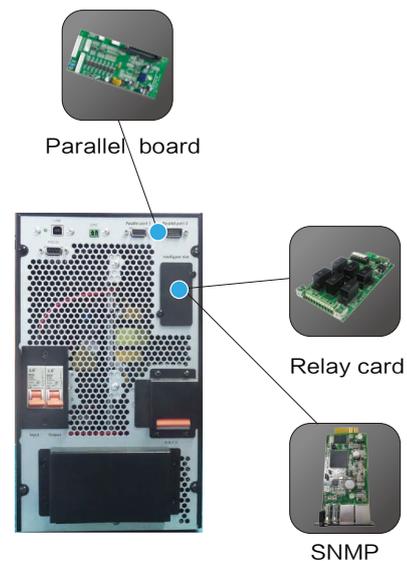
1:1 Phase PF 0.9 (PF 1.0 optional)

Power range: 6kVA ~ 10kVA



## Features

- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with full digital control
- Optimization battery group, the quantity of battery: 16/18/20pcs (Settable)
- Wide input voltage range: 110~286Vac
- Wide input frequency range
- Selectable output voltage: 208/220/230/240Vac
- Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Multiple communication interface: RS232/USB/EPO (Relay card /SNMP card optional)
- Maximum charging current up to 10A
- Cold start
- Design with maintenance switch (Optional)
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm



## Technical Specifications:

MODEL	MP Pro 6k H	MP Pro 6k S	MP Pro 10k H	MP Pro 10k S
Capacity	6000VA/5400W		10000VA/9000W	
<b>INPUT</b>				
Nominal voltage	208/220/230/240Vac			
Input voltage range	110~286Vac			
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%)			
<b>FREQUENCY</b>				
Frequency range	40~70Hz (50/60Hz Auto-Sensing)			
<b>OUTPUT</b>				
Output voltage	208/220/230/240Vac			
Voltage regulation	±1%			
Power factor	0.9			
Output frequency	Line mode	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)		
	Bat. mode	(50/60±0.1%)Hz		
Crest factor	3:1			
Harmonic distortion (THDv)	≤2% Linear load ≤5% Non linear load			
Transfer time	AC mode to Bat.mode	0ms		
	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		
	Bypass mode	40A (Breaker)	63A (Breaker)	
Efficiency	up to 93.5%			
<b>BATTERY</b>				
Battery voltage	±96/±108/±120Vdc (Settable)	±120Vdc	±96/±108/±120Vdc (Settable)	±120Vdc
Capacity (Standard unit)	9Ah/12V (7Ah/12V optional)			
Typical recharging time	6~8 hours (To 90% of full capacity)			
Charging current	1.35A (Standard unit); Long run unit Max.current 10A (Charging current can be set according to battery capacity)			
<b>INDICATORS</b>				
LED display	Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault			
LCD display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time			
<b>ALARM</b>				
Battery mode	Beeping every 4 seconds			
Battery low	Beeping every second			
Overload	Beeping twice every second			
Fault	Continuously beeping			
<b>PHYSICAL</b>				
Dimension W × D × H	H: 191 × 460 × 337mm; S: 191 × 460 × 720mm (With wheel)			
Net weight	12.5kg	70kg	14kg	71.5kg
<b>ENVIRONMENT</b>				
Operating temperature	0°C ~ 40°C			
Storage temperature	-25°C ~ 55°C			
Humidity range	20~95%RH @ 0~40°C (Non condensing)			
Altitude	< 1500m, derating required when > 1500m			
Noise level	< 55dB at 1 Meter		< 58dB at 1 Meter	
<b>STANDARDS</b>				
Safety	IEC/EN 62040-1, IEC/EN 62477-1			
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)			

1. When output voltage is 208Vac, need to derate to 80% of the unit capacity
2. Specifications are subject to change without prior notice
3. Data above are typical values for reference only, not as a basis for engineering design

## MP BT 6–10kVA Pro battery pack specification

MODEL	MP BT40120N
<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
Battery quantity	2 × 20 PCS
Capacity	7Ah/9Ah (12V)
<b>PHYSICAL</b>	
Dimension W × D × H	250 × 619 × 616mm (With wheel)
Net weight	122kg/134kg
<b>ENVIRONMENT</b>	
Safety	CE
Operating environment	0°C – 40°C
Relative humidity	0 – 95% (Non condensing)
Noise level	< 40dB at 1 Meter

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design

3. Remark: MP BT40120N "MP" means series; "BT" means Battery Tower cabinet; "40" means battery number inside the cabinet; "120" means the battery system voltage; "N" means battery with neutral connection

# MEMOPOWER RT Pro-III Series

1:1 Phase PF 0.9 (PF 1.0 optional)

Power range: 6kVA ~ 10kVA



## Features

- High power density
- LCD supports Rack/Tower convertible design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with full digital control
- Optimization battery group, the quantity of battery: 16/18/20pcs (Settable)
- Wide input voltage range: 110 ~ 286Vac
- Wide input frequency range
- Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Multiple communication interface: RS232/USB/PO (Relay card /SNMP card optional)
- Parallel kit default
- Maximum charging current up to 10A
- Cold start
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- PDU with maintenance bypass switch (Optional)



## Technical Specifications:

MODEL	MP RT 6k	MP RT 10k
Capacity	6000VA/5400W	10000VA/9000W
<b>INPUT</b>		
Nominal voltage	208/220/230/240Vac	
Input voltage range	110~286Vac	
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%)	
<b>FREQUENCY</b>		
Frequency range	40~70Hz (50/60Hz Auto-Sensing)	
<b>OUTPUT</b>		
Output voltage	208/220/230/240Vac	
Voltage regulation	±1%	
Power factor	0.9	
Output frequency	±1%/±2%/±4%/±5%±10% of the rated frequency (Optional)	
	Line mode	(50/60±0.1%)Hz
	Bat. mode	
Crest factor	3:1	
Harmonic distortion (THDv)	≤2% Linear load ≤5% Non linear load	
Transfer time	AC mode to Bat.mode	0ms
	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
	Bypass mode	40A (Breaker)   63A (Breaker)
Efficiency	up to 94%	
<b>BATTERY</b>		
Battery voltage	±96/±108/±120Vdc (Settable)	
Typical recharging time	6~8 hours (To 90% of full capacity)	
Charging current	Max.current 10A (Charging current can be set according to battery capacity)	
<b>INDICATORS</b>		
LED display	Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault	
LCD display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time	
<b>ALARM</b>		
Battery mode	Beeping every 4 seconds	
Battery low	Beeping every second	
Overload	Beeping twice every second	
Fault	Continuously beeping	
<b>PHYSICAL</b>		
Dimension W×D×H	440×625×86.5mm	
Net weight	16kg	18kg
<b>ENVIRONMENT</b>		
Operating temperature	0°C~40°C	
Storage temperature	-25°C~55°C	
Humidity range	20~95%RH @ 0~40°C (Non condensing)	
Altitude	<1500m, derating required when >1500m	
Noise level	<55dB at 1 Meter	<58dB at 1 Meter
<b>STANDARDS</b>		
Safety	IEC/EN 62040-1, IEC/EN 62477-1	
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)	

1. When output voltage is 208Vac, need to derate to 80% of the unit capacity
2. Specifications are subject to change without prior notice
3. Data above are typical values for reference only, not as a basis for engineering design

## MP BR 6–10kVA battery pack specification

MODEL	MP BR20120N
<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
Battery quantity	1 × 20 PCS
Capacity	7Ah/9Ah (12V)
<b>PHYSICAL</b>	
Dimension W × D × H	440 × 680 × 131mm (3U)
Net weight	58kg/63kg
<b>ENVIRONMENT</b>	
Safety	CE
Operating environment	0°C ~ 40°C
Relative humidity	0–95% (Non condensing)
Noise level	< 40dB at 1 Meter

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design

3. Remark: MP BR20120N "MP" means series; "BR" means Battery Rack; "20" means battery number inside the Rack; "120" means the battery system voltage; "N" means battery with neutral connection

# MEMOPOWER-III Series

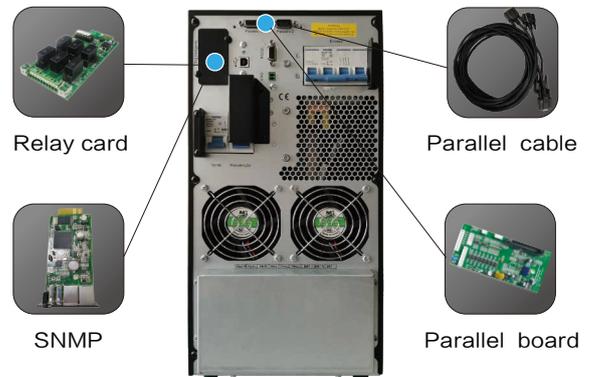
3:1 phase PF 0.9

Power range: 10kVA ~ 20kVA



## Features

- Support parallel function (Optional)
- Online double conversion with DSP control
- Optimization battery group, the quantity of battery: 16/18/20pcs
- Wide input voltage range: 208~478Vac
- Wide input frequency range: 40~70Hz
- Maximum charging current up to 18A (Settable)
- Support 3/1 and 1/1 operation
- Generator compatible
- ECO mode operation for energy saving
- Design with maintenance switch
- Cold start
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- Colorful 2.4 inch TFT LCD display is optional
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: RS232/USB/EPO (Relay card/SNMP card/Parallel kit optional)



## Technical Specifications:

MODEL	MP31 10k H	MP31 10k S	MP31 15k H	MP31 15k S	MP31 20k H	MP31 20k S	
Capacity	10kVA/9kW		15kVA/13.5kW		20kVA/18kW		
<b>INPUT</b>							
Nominal voltage	380/400/415Vac (3PH+N+PE) 220/230/240Vac (L+N+PE)						
Operating voltage range	208 ~ 478Vac; 120 ~ 276Vac						
Operating frequency range	40 ~ 70Hz (50/60Hz Auto-Sensing)						
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%)						
<b>FREQUENCY</b>							
Frequency protection range	50/60Hz ± 10%						
<b>OUTPUT</b>							
Output voltage	220/230/240Vac (L+N+PE)						
Voltage regulation	± 1%						
Power factor	0.9						
Output frequency	Line mode	± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (Optional)					
	Bat. mode	(50/60 ± 0.1%)Hz					
Transfer time	AC mode to Bat.mode	0ms					
	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	Load ≤ 110%: last 60min turn to bypass; ≤ 125%: last 10min turn to bypass; ≤ 150%: last 1min turn to bypass; ≥ 150%: turn to bypass mode immediately					
	Bat.mode	Load ≤ 110%: last 10min; ≤ 125%: last 1min; ≥ 125%: shut down UPS immediately					
	Bypass mode	Breaker 2 × 32A		Breaker 2 × 50A		Breaker 2 × 63A	
<b>EFFICIENCY</b>							
Efficiency	up to 93.5%			up to 94%			
<b>BATTERY</b>							
Battery voltage	Standard unit	Chassis 1: ± 120Vdc (20pcs 9Ah) (20pcs 7Ah, 2 × 20pcs 7/9Ah optional)		± 120Vdc (2 × 20pcs 9Ah) (2 × 20pcs 7Ah optional)			
		Chassis 2: ± 96Vdc (16pcs 9Ah) or ± 120Vdc (20pcs 7/9Ah) optional					
	Long run unit	± 96Vdc ~ ± 120Vdc (16 ~ 20pcs, 16pcs default, standard unit and 20pcs no power derating; 20pcs output power factor 0.9, 18pcs output power factor 0.8; 16pcs output power factor 0.7)					
Charging current		14A (Max.)	1.35A (2.7A optional)	16A (Max.)	2.7A	18A (Max.)	2.7A
		Charging current can be set according to battery capacity					
<b>PHYSICAL</b>							
Dimension W × D × H	Standard unit	Chassis 1: 250 × 900 × 868mm Chassis 2: 250 × 645 × 715mm		250 × 900 × 868mm			
	Long run unit	220 × 531 × 450mm					
Net weight	Standard unit	Chassis 1: 114kg (20pcs 9Ah) Chassis 2: 87kg (20pcs 9Ah)		167kg (2 × 20pcs 9Ah)		171kg (2 × 20pcs 9Ah)	
	Long run unit	22kg		24kg		28kg	
<b>ENVIRONMENTAL</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	< 55dB at 1 Meter				< 58dB at 1 Meter		
<b>STANDARDS</b>							
Safety	IEC/EN 62040-1, IEC/EN 62477-1						
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)						

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## MP BT 10–20kVA battery pack specification

MODEL	MP31 BT40120N
<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
Battery quantity	2 × 20 PCS
Capacity	7Ah/9Ah (12V)
<b>PHYSICAL</b>	
Dimension W × D × H	250 × 619 × 616mm (With wheel)
Net weight	122kg/134kg
<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: MP31 BT40120N "MP31" means series; "BT" means Battery Tower cabinet; "40" means battery number inside the cabinet; "120" means the battery system voltage; "N" means battery with neutral connection.

MODEL	YDC3320 BT80120N
<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
Battery quantity	4 × 20 PCS
Capacity	7Ah/9Ah (12V)
<b>PHYSICAL</b>	
Dimension W × D × H	250 × 900 × 868mm (With wheel)
Net weight	244kg/265kg
<b>ENVIRONMENT</b>	
Safety	CE
Operating environment	0°C~40°C
Relative humidity	0~95% (Non condensing)
Noise level	< 40dB at 1 Meter

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design

3. Remark: YDC3320 BT80120N "YDC3320" means series; "BT" means Battery Tower cabinet; "80" means battery number inside the cabinet; "120" means the battery system voltage; "N" means battery with neutral connection

# MEMOPOWER Pro-III Series

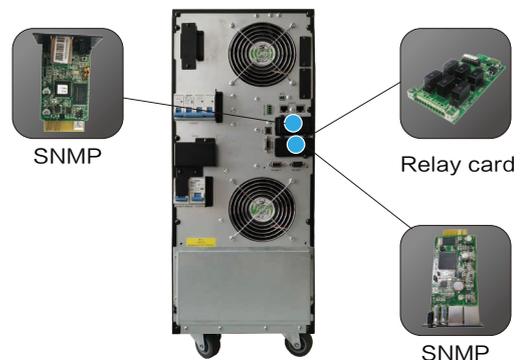
3:1 phase PF 1.0 (PF 0.9 optional)

Power range: 10kVA ~ 20kVA



## Features

- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Optimization battery group, the quantity of battery: 16/18/20pcs (32~40pcs supportable)
- Wide input voltage range: 208~478Vac
- Wide input frequency range: 40Hz~70Hz
- Input current harmonic: <3%
- Dual input source (Optional)
- Maximum charging current up to 18A (Settable)
- Support 3/1 and 1/1 operation
- Generator compatible
- ECO mode operation for energy saving
- Design with maintenance switch
- Cold start
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: RS232/RS485/USB/EPO /Dry contact port (Relay card/SNMP card/Parallel cable/Battery temperature sensor optional)



## Technical Specifications:

MODEL	MP31 Pro 10k H	MP31 Pro 10k S	MP31 Pro 15k H	MP31 Pro 15k S	MP31 Pro 20k H	MP31 Pro 20k S
Capacity	10kVA/10kW		15kVA/15kW		20kVA/20kW	
<b>INPUT</b>						
Nominal voltage	380/400/415Vac (3PH+N+PE) 220/230/240Vac (L+N+PE)					
Operating voltage range	208 ~ 478Vac; 120 ~ 276Vac					
Operating frequency range	40 ~ 70Hz (50/60Hz Auto-Sensing)					
Power factor	≥0.99					
Harmonic distortion (THDi)	≤3% Linear load					
Bypass voltage range	Max.voltage: 220V: +25% (Optional +10%, +15%, +20%) 230V: +20% (Optional +10%, +15%) 240V: +15% (Optional +10%) Min.voltage: -45% (Optional -10%, -20%, -30%)					
<b>FREQUENCY</b>						
Frequency protection range	50/60Hz ± 10%					
<b>OUTPUT</b>						
Output voltage	220/230/240Vac (L+N+PE)					
Voltage regulation	± 1%					
Power factor	1.0					
Output frequency	Line mode	± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (Optional)				
	Bat. mode	(50/60 ± 0.1%)Hz				
Transfer time	AC mode to Bat.mode	0ms				
	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	Load ≤ 110%: last 60min turn to bypass; ≤ 125%: last 10min turn to bypass; ≤ 150%: last 1min turn to bypass; ≥ 150% turn to bypass mode immediately				
	Bat.mode	Load ≤ 110%: last 10min; ≤ 125%: last 1min; ≤ 150%: last 5s; ≥ 150%: shut down UPS immediately				
	Bypass mode	Breaker 2 × 32A	Breaker 2 × 50A		Breaker 2 × 63A	
<b>EFFICIENCY</b>						
Efficiency	up to 93.5%			up to 94.5%		
<b>BATTERY</b>						
Battery voltage	Standard unit	Chassis 1: ± 120Vdc (20pcs 9Ah) (20pcs 7Ah, 2 × 20pcs 7/9Ah optional)		± 120Vdc (2 × 20pcs 9Ah) (2 × 20pcs 7Ah optional)		
	Long run unit	± 96Vdc ~ ± 120Vdc (16 ~ 20pcs, 16pcs default, Standard unit and 20pcs no power derating; 18pcs output power factor 0.9; 16pcs output power factor 0.8) ± 192/204/216/228/240Vdc (32/34/36/38/40pcs supportable)				
Charging current	14A (Max.)	1.35A (2.7A optional)	16A (Max.)	2.7A	18A (Max.)	2.7A
Charging current can be set according to battery capacity						
<b>PHYSICAL</b>						
Dimension W × D × H	Standard unit	Chassis 1: 250 × 900 × 868mm Chassis 2: 250 × 645 × 715mm		250 × 900 × 868mm		
	Long run unit	250 × 580 × 655mm				
Net weight	Standard unit	Chassis 1: 125kg (20pcs 9Ah) Chassis 2: 78kg (16pcs 9Ah)		180kg (2 × 20pcs 9Ah)		181kg (2 × 20pcs 9Ah)
	Long run unit	33kg		37kg		38kg
<b>ENVIRONMENTAL</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	< 55dB at 1 Meter				< 58dB at 1 Meter	
<b>STANDARDS</b>						
Safety	IEC/EN 62040-1, IEC/EN 62477-1					
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)					

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## MP BT 10–20kVA battery pack specification

MODEL	MP31 BT40120N
<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
Battery quantity	2 × 20 PCS
Capacity	7Ah/9Ah (12V)
<b>PHYSICAL</b>	
Dimension W × D × H	250 × 619 × 616mm (With wheel)
Net weight	122kg/134kg
<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: MP31 BT40120N "MP31" means series; "BT" means Battery Tower cabinet; "40" means battery number inside the cabinet; "120" means the battery system voltage; "N" means battery with neutral connection.

MODEL	YDC3320 BT80120N
<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
Battery quantity	4 × 20 PCS
Capacity	7Ah/9Ah (12V)
<b>PHYSICAL</b>	
Dimension W × D × H	250 × 900 × 868mm (With wheel)
Net weight	244kg/265kg
<b>ENVIRONMENT</b>	
Safety	CE
Operating environment	0°C–40°C
Relative humidity	0–95% (Non condensing)
Noise level	< 40dB at 1 Meter

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design

3. Remark: YDC3320 BT80120N "YDC3320" means series; "BT" means Battery Tower cabinet; "80" means battery number inside the cabinet; "120" means the battery system voltage; "N" means battery with neutral connection

# MEMOPOWER RT-III Series

3:1 phase PF 1.0 (PF 0.9 optional)

Power range: 6kVA ~ 10kVA



## Features

- LCD supports Rack/Tower convertible design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: < 3%
- Optimization battery group, the quantity of battery: 16/18/20pcs (32~40pcs supportable)
- Wide input voltage range: 208~478Vac
- Wide input frequency range: 40~70Hz
- Dual input source
- Support 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
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: RS232/RS485/EPO/Output port/Maintain-AUXSWS port (Relay card/SNMP card/BMS optional)
- PDU with maintenance bypass switch (Optional)



SNMP



Relay card

## Technical Specifications:

MODEL	MP31 RT 6k	MP31 RT 10k
Capacity	6kVA/6kW	10kVA/10kW
<b>INPUT</b>		
Nominal voltage	380/400/415Vac (3PH+N+PE) 220/230/240Vac (L+N+PE)	
Operating voltage range	208 ~ 478Vac; 120~270Vac	
Operating frequency range	40 ~ 70Hz (50/60Hz Auto-Sensing)	
Power factor	≥0.99	
Harmonic distortion (THDi)	≤3% Linear load	
Bypass voltage range	Max.voltage: 220V: +25% (Optional +10%, +15%, +20%) 230V: +20% (Optional +10%, +15%) 240V: +15% (Optional +10%) Min.voltage: -45% (Optional -10%, -20%, -30%)	
<b>FREQUENCY</b>		
Frequency protection range	50/60Hz ± 10%	
<b>OUTPUT</b>		
Output voltage	220/230/240Vac (L+N+PE)	
Voltage regulation	± 1%	
Power factor	1.0	
Output frequency	Line mode: ± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (Optional) Bat. mode: (50/60 ± 0.1%)Hz	
Transfer time	AC mode to Bat.mode: 0ms 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: Load ≤ 110%: last 60min; ≤ 125%: last 10min; ≤ 150%: last 1min; ≥ 150%: turn to bypass mode immediately Bat.mode: Load ≤ 110%: last 10min; ≤ 125%: last 1min; ≤ 150%: last 5s; ≥ 150%: shut down UPS immediately Bypass mode: Breaker (Load < 125%, long-term operation)	
<b>EFFICIENCY</b>		
Efficiency	up to 93.5%	
<b>BATTERY</b>		
Battery voltage	± 96/ ± 108/ ± 120Vdc (16/18/20pcs optional); (16pcs default, 20pcs no power derating; 18pcs output power factor 0.9; 16pcs output power factor 0.8); ± 192/204/216/228/240Vdc (32/34/36/38/40pcs supportable)	
Charging current	12A (Max.)	14A (Max.)
<b>PHYSICAL</b>		
Dimension W × D × H	443 × 580 × 131mm (3U)	
Net weight	27kg	28kg
<b>ENVIRONMENTAL</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	< 53dB at 1 Meter	< 55dB at 1 Meter
<b>STANDARDS</b>		
Safety	IEC/EN 62040-1, IEC/EN 62477-1	
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)	

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## MP 31 BR 6–10kVA battery pack specification

MODEL	MP31 BR20120N
<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
Battery quantity	1 × 20 PCS
Capacity	7Ah/9Ah (12V)
<b>PHYSICAL</b>	
Dimension W × D × H	443 × 720 × 131mm (3U)
Net weight	58kg/63kg
<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: MP31 BR20120N "MP" means series; "BR" means Battery Rack; "20" means battery number inside the Rack; "120" means the battery system voltage; "N" means battery with neutral connection.

MODEL	MP31 BR40120N
<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
Battery quantity	2 × 20 PCS
Capacity	7Ah/9Ah (12V)
<b>PHYSICAL</b>	
Dimension W × D × H	482 × 861.5 × 175mm (4U)
Net weight	138kg/154kg
<b>ENVIRONMENT</b>	
Safety	CE
Operating environment	0°C ~ 40°C
Relative humidity	0 – 95% (Non condensing)
Noise level	< 40dB at 1 Meter

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design

3. Remark: MP31 BR40120N "MP" means series; "BR" means Battery Rack; "40" means battery number inside the Rack; "120" means the battery system voltage; "N" means battery with neutral connection



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Add: CATL-KSTAR, XiaPu Economic Development Zone, FuJian, P.R. China

Add: Kstar Industrial Park, Yifeng County Industrial Park, Yichun, Jiangxi, P.R. China

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