KSTAR

UPS Solution

Memopower Series
(1~20kVA)

Company Profile

Founded in 1993, Shenzhen KSTAR Science and Technology Co., Ltd. (Stock code: 002518) is a global leader in the smart energy field. Kstar focused on the R&D and manufacturing of UPS, Precision Cooling and MDC (Modular Data Center), Battery, PV, ESS and EV Charger.

Founded in: 1993 **30+ years**

Listed in: 2010 **Stock Code:002518**

Key Products

UPS | Cooling & MDC | Battery | PV | ESS | EV Charger

Listed
Listed on SZSE

2
R&D Centers

8
Facilities

180+
180+ Markets

670+
R&D Employees

4300+
4300+ Employees

Market Achievement

TOP 5

Global UPS Supplier

Data source: Omdia 2024

TOP 1

China UPS Selling Local Brands

Data source: CCID Consulting Annual Research Report on China's UPS Product Market in 2023-2024

TOP 1

China Single-rack Modular Data Center Market Share

Data source: ICT research Annual Report on China's Modular Data Center Product Market in 2023-2024

TOP 1

China Lead-acid Battery Market Share

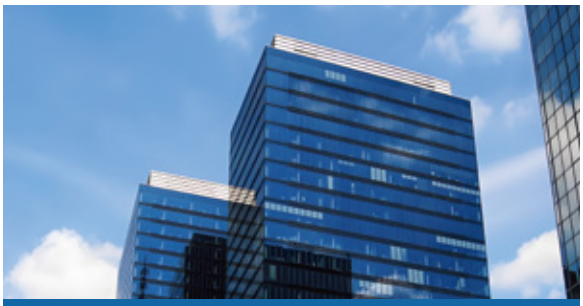
Data source: ICT research Report on China's UPS Supporting Lead-Acid Battery Product Market in 2023-2024

They Are Using Kstar

Beijing Olympic Games

Agricultural Bank of China Inner Mongolia Data Center

Shanghai Securities Waigaoqiao Earth Station



China's Leading Internet & E-commerce Giant A

Shanghai Telecom Data Center

Peking University Biomedical Imaging Technology Cluster Large Facility

Jinan Metro

Ruili to Menglian Expressway Electromechanical Project

Contents

Memopower-III Series

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

Power range: 1~3kVA

3 kinds of LCD can be selected

Colourful LCD

Blue LCD

Advanced Touch Screen

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/ Dry contact card/SNMP card optional)
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm

Battery Cabinet (Optional)

Optimized Battery Configuration 7/9Ah

SNMP card

Dry contact card

Rear Panel

Optional socket

Technical Specifications

MODEL	MP 1k H		MP 1k S		MP 1.5k H		MP 1.5k S		MP 2k H		MP 2k S		MP 3k H		MP 3k S	
Capacity (VA/W)	1000/900				1500/1350				2000/1800				3000/2700			
INPUT																
Nominal Voltage (Vac)	208/220/230/240															
Operating Voltage Range (Vac)	110~300 (176~264 @ 100% load)															
Power Factor	≥0.99															
Bypass Frequency Range (Hz)	40~70 (50/60 Auto-Sensing)															
OUTPUT																
Nominal Voltage (Vac)	208/220/230/240															
Voltage Regulation	±1%															
Power Factor	0.9															
Output Frequency (Hz)	Line mode: 46~54 or 56~64; Bat. mode: (50/60±0.1%)															
Crest Factor	3:1															
Harmonic Distortion (THDv)	≤3% Linear load; ≤5% Non linear load															
Transfer Time (ms)	AC mode to Bat.mode: 0; Inverter to Bypass: 4 (Typical)															
Waveform	Pure Sinewave															
EFFICIENCY																
AC Mode	Up to 90%				Up to 90.5%				Up to 91%				Up to 92%			
ECO Mode	Up to 95%				Up to 96%				Up to 96%				Up to 97%			
BATTERY																
Battery Type	VRLA (Lead acid maintenance free battery)															
Battery Voltage (Vdc)	24	36	24	36	36		36		48	72	48	72	72	96	72	96
Battery Capacity (Ah)	S: 7/9; H: Depends on the capacity of external batteries															
Battery Quantity (pcs)	2	3	2	3	3		3		4	6	4	6	6	8	6	8
Typical Recharge Time (hours)	S: 4 (To 90% of full capacity)															
Charging Current (Max.)(A)	6/12		1		6/12		1		6/12		1		6/12		1	
MANAGEMENT																
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															
ENVIRONMENTAL																
Operating Temperature (℃)	0~40															
Storage Temperature (℃)	-25~55															
Humidity Range	20~95%RH @ 0~40℃ (Non condensing)															
Altitude (m)	<1000, derating required between 1000 to 3000															
Noise Level (dB)	<50															
PHYSICAL																
Dimension WxDxH (mm)	144×293×209				144×399×209				191×460×337 (144×399×209)				191×460×337			
Weight (kg)	4.1		9.3	12.5	5.6		13.1		10 (5.8)		19.5 (15.4)	24.5	10		24.5	29.5
STANDARDS																
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
BATTERY SYSTEM					
Battery Type	VRLA (Lead acid maintenance free battery)				
Typical Battery Recharge Time (hours)	6~8 (To 90% of full capacity)				
Typical Battery Life (years)	3~5, depend on discharing cycle and ambient temperature				
System Voltage (Vdc)	24	36	48	72	96
Charging Current (Max.) (A)	1.4				
Battery Quantity (pcs)	4	6	8	12	16
Capacity (Ah)	9 (7 Optional)				
PHYSICAL					
Dimension WxDxH (mm)	144×399×209		191×460×337		
Weight (kg)	13.5	18.5	28.5	38.5	47.5
ENVIRONMENTAL					
Operating Environment (℃)	0~40				
Humidity Range	20~95%RH @ 0~40℃ (Non condensing)				
Altitude (m)	<1000, derating required between 1000 to 3000				
Noise Level (dB)	<40				
STANDARDS					
Safety	IEC/EN 62040-1, IEC/EN 62477-1				

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: 1~3kVA

3 Kinds of LCD can be selected

Colourful LCD

Blue LCD

Advanced Touch Screen

Battery Cabinet (Optional)

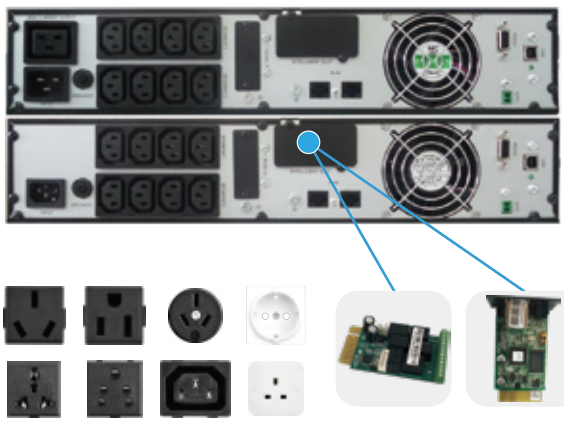
Optimized Battery Configuration 7/9Ah

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/Dry contact 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

Dry contact card

SNMP card

Technical Specifications

MODEL	MP RT 1k H	MP RT 1k S	MP RT 1.5k H	MP RT 1.5k S	MP RT 2k H	MP RT 2k S	MP RT 3k H	MP RT 3k S
Capacity (VA/W)	1000/900		1500/1350		2000/1800		3000/2700	
INPUT								
Nominal Voltage (Vac)	208/220/230/240							
Operating Voltage Range (Vac)	110~300 (176~264 @ 100% load)							
Power Factor	≥0.99							
Bypass Frequency Range (Hz)	40~70 (50/60 Auto-Sensing)							
OUTPUT								
Nominal Voltage (Vac)	208/220/230/240							
Voltage Regulation	±1%							
Power Factor	0.9							
Output Frequency (Hz)	Line mode: 46~54 or 56~64; Bat. mode: (50/60±0.1%)							
Crest Factor	3:1							
Harmonic Distortion (THDv)	≤3% Linear load; ≤5% Non linear load							
Transfer Time (ms)	AC mode to Bat.mode: 0; Inverter to Bypass: 4 (Typical)							
Waveform	Pure Sinewave							
EFFICIENCY								
AC Mode	Up to 90%		Up to 90.5%		Up to 91%		Up to 92%	
ECO Mode	Up to 95%		Up to 96%		Up to 96%		Up to 97%	
BATTERY								
Battery Type	VRLA (Lead acid maintenance free battery)							
Battery Voltage (Vdc)	24	36	24	36	36	48	72	48	72	72	96	72
Battery Capacity (Ah)	S: 7/9; H: Depends on the capacity of external batteries							
Battery Quantity (pcs)	2	3	2	3	3	4	6	4	6	6	8	6
Typical Recharge Time (hours)	S: 4 (To 90% of full capacity)							
Charging Current (Max.) (A)	6/12		1		6/12	1	6/12		1	6/12		1
MANAGEMENT								
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							
ENVIRONMENTAL								
Operating Temperature (℃)	0~40							
Storage Temperature (℃)	-25~55							
Humidity Range	20~95%RH @ 0~40℃ (Non condensing)							
Altitude (m)	<1000, derating required between 1000 to 3000							
Noise Level (dB)	<50							
PHYSICAL								
Dimension WxDxH (mm)	440×325×86.5		440×460×86.5	440×600×86.5 (440×460×86.5)	440×460×86.5	440×600×86.5 (440×460×86.5)	440×460×86.5	440×600×86.5	440×600×86.5 (440×460×86.5)	440×600×86.5
Weight (kg)	5.6	11.3	14	9.1 (8.1)	16.5	10.5 (8.6)	19.5	25	11 (8.8)	26
STANDARDS								
Safety	IEC/EN 62040-1, IEC/EN 62477-1							
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8							

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
BATTERY SYSTEM				
Battery Type	VRLA (Lead acid maintenance free battery)			
Typical Battery Recharge Time (hours)	6~8 (To 90% of full capacity)			
Typical Battery Life (years)	3~5, depend on discharing cycle and ambient temperature			
System Voltage (Vdc)	24	36	48	72
Charging Current (Max.) (A)	1.4			
Battery Quantity (pcs)	4	6	8	12
Capacity (Ah)	9 (7 Optional)			
PHYSICAL				
Dimension WxDxH (mm)	440×430×86.5		440×550×86.5	440×710×86.5
Weight (kg)	17.4	22.5	31.5	44
ENVIRONMENTAL				
Operating Environment (℃)	0~40			
Humidity Range	20~95%RH @ 0~40℃ (Non condensing)			
Altitude (m)	<1000, derating required between 1000 to 3000			
Noise Level (dB)	<40			
STANDARDS				
Safety	IEC/EN 62040-1, IEC/EN 62477-1			

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 RT-III Li Series

1:1 Phase PF 1.0

Power range: 1~3kVA

3 Kinds of LCD can be selected

Cost-effective Blue LCD

Premium Colorful LCD

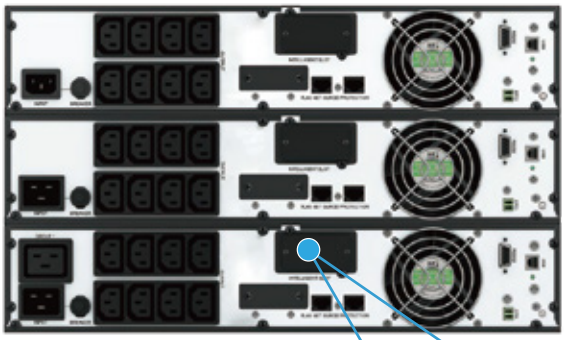
Advanced Touch Screen

Features

- Rack/Tower convertible design
- Online double conversion with full digital control
- Built-in lithium battery with more than 2000 times cycle life
- Reliable BMS protection
- 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
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- Hot-Swappable battery design
- Cold start
- Intelligent fan speed regulation
- Programmable receptacles optional
- Versatile LCD human-computer interface, 3.5inch touch screen optional
- Multiple communication interface: RS232 (USB/EPO/Dry contact card/SNMP card optional)
- Multiple protection function: short-circuit,overload,over-heat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- PDU with maintenance bypass switch (Optional)
- IEC 62133 (Cell)/IEC 62619 (Pack)/UN 38.3 (Transportation) certificate

Multifunctional Bracket

The LCD panel can be rotated (Touch screen is gravity sensing)



Optional socket

Dry contact card

SNMP card

Technical Specifications

MODEL	MP RT 1k S Li	MP RT 1.5k S Li	MP RT 2k S Li	MP RT 3k S Li
Capacity (VA/W)	1000/1000	1500/1500	2000/2000	3000/3000
INPUT				
Nominal Voltage (Vac)	208/220/230/240			
Operating Voltage Range (Vac)	110~300 (176~264 @ 100% load)			
Power Factor	≥0.99			
Bypass Frequency Range (Hz)	40~70 (50/60 Auto-Sensing)			
OUTPUT				
Nominal Voltage (Vac)	208/220/230/240			
Voltage Regulation	±1%			
Power Factor	1.0			
Output Frequency (Hz)	Line mode: 46~54/56~64, sychronize with input; Bat. mode: 50/60±0.1			
Crest Factor	3:1			
Harmonic Distortion (THDv)	≤3% Linear load; ≤5% Non linear load			
Transfer Time (ms)	AC mode to Bat.mode: 0; Inverter to Bypass: 4 (Typical)			
Waveform	Pure Sinewave			
EFFICIENCY				
AC Mode	Up to 90.5%	Up to 91%	Up to 92%	Up to 92%
ECO Mode	Up to 95%	Up to 95%	Up to 96%	Up to 96.5%
BATTERY				
Battery Type	$LiFePO_4$			
Battery Voltage (Vdc)	25.6	48	76.8	76.8
Battery Capacity (Ah)	9	6	6	9
Backup Time (Full load) (mins)	9	7	9	9
Charging Current (Max.) (A)	2			
MANAGEMENT				
LED/LCD Display	Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault			
ENVIRONMENTAL				
Operating Temperature (℃)	0~40			
Storage Temperature (℃)	-25~55			
Humidity Range	20~95%RH @ 0~40℃ (Non condensing)			
Altitude (m)	<1000, derating required between 1000 to 3000			
Noise Level (dB)	<50			
PHYSICAL				
Dimension WxDxH (mm)	440×325×86.5	440×460×86.5	440×500×86.5	440×640×86.5
Weight (kg)	10	13.5	16.5	23
STANDARDS				
Safety	IEC/EN 62040-1, IEC/EN 62477-1, IEC 62133 (Cell), IEC 62619 (Pack)			
EMC	IEC/EN 62040-2			
Transportation	UN38.3			

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. When output voltage is 208Vac, need to derate to 80% of the unit capacity

Memopower-III Series

1:1 Phase PF 0.9 (PF 0.8 optional)

Power range: 6~10kVA

4 Kinds of LCD can be selected

Battery Cabinet (Optional)

Optimized Battery Configuration 7/9Ah

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 (Dry contact 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

Dry contact card

SNMP card

Technical Specifications

MODEL		MP 6k H	MP 6k S	MP 10k H	MP 10k S
Capacity (VA/W)		6000/5400		10000/9000	
INPUT					
Nominal Voltage (Vac)		208/220/230/240			
Operating Voltage Range (Vac)		110~286			
Power Factor		≥0.99			
Harmonic Distortion (THDi)		≤3% (Linear load)			
Bypass Voltage Range (Vac)		Max.voltage: 230~264; Min.voltage: 176~220			
Bypass Frequency Range (Hz)		40~70 (50/60 Auto-Sensing)			
OUTPUT					
Nominal Voltage (Vac)		208/220/230/240			
Voltage Regulation		±1%			
Power Factor		0.9			
Output Frequency (Hz)		Line mode: ±10% of the rated frequency; Bat. mode: (50/60±0.1%)			
Crest Factor		3:1			
Harmonic Distortion (THDv)		≤2% Linear load; ≤5% Non linear load			
Transfer Time (ms)		AC mode to Bat. mode: 0; Inverter to Bypass: 5 (Typical)			
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					
AC Mode		Up to 93.5%			
ECO Mode		Up to 97.5%			
BATTERY					
Battery Type		VRLA (Lead acid maintenance free battery)			
Battery Voltage (Vdc)		192 (Default)/216/240	192/240 (Default)	192 (Default)/216/240	192/240 (Default)
Battery Capacity (Ah)		9 (7 Optional)			
Typical Recharge Time (hours)		6~8 (To 90% of full capacity)			
Charging Current (Max.) (A)		1.35 (Standard unit); Long run unit Max.current 8 (Charging current can be set according to battery capacity)			
MANAGEMENT					
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, Battery voltage, Inner temperature & Remaining battery backup time			
ENVIRONMENTAL					
Operating Temperature (℃)		0~40			
Storage Temperature (℃)		-25~55			
Humidity Range		20~95%RH @ 0~40℃ (Non condensing)			
Altitude (m)		<1000, derating required between 1000 to 3000			
Noise Level (dB)		<55		<58	
PHYSICAL					
Dimension WxDxH (mm)		H: 191×460×337; S: 191×460×720 (With caster)			
Weight (kg)		12	69.5	13.5	71
STANDARDS					
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		
BATTERY SYSTEM			
Battery Type	VRLA (Lead acid maintenance free battery)		
Typical Battery Recharge Time (hours)	6~8 (To 90% of full capacity)		
Typical Battery Life (years)	3~5 years, depend on discharing cycle and ambient temperature		
System Voltage (Vdc)	192	216	240
Battery Quantity (pcs)	2×16	2×18	2×20
Capacity (Ah)	7/9		
PHYSICAL			
Dimension WxDxH (mm)	250×619×616 (With caster)		
Weight (kg)	106/114	114/124	122/134
ENVIRONMENTAL			
Operating Environment (℃)	0~40		
Humidity Range	0~95%RH @ 0~40℃ (Non condensing)		
Altitude (m)	<1000, derating required between 1000 to 3000		
Noise Level (dB)	<40		
STANDARDS			
Safety	EN IEC 62040-1: 2019+A11:2021		

Memopower-IV Series

1:1 Phase PF 1.0

Power range: 6~10kVA

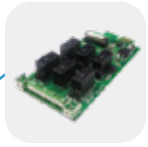
5 Kinds of LCD can be selected

Battery Cabinet (Optional)

Optimized Battery Configuration 7/9Ah

Features

- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with full digital control
- 3-level inverter topology, the efficiency can be up to 95.5%
- Wide input voltage range: 110~300Vac
- Dual input source (Optional)
- Generator compatible
- Supporting customized shared battery banks for parallel system (The battery banks should be configured with neutral line)
- Dual Intelligent card slot for touch screen version (Segment LCD optional)
- Maximum charging current up to 15A
- Cold start function
- Dry contact port optional (4 pins input and 4 pins output)
- Intelligent fan speed regulation
- Low noise design, less than 45dB for 6kVA
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm



Dry contact card

SNMP card

Technical Specifications

MODEL		MP Pro 6k H	MP Pro 6k S	MP Pro 10k H	MP Pro 10k S
Capacity (VA/W)		6000/6000		10000/10000	
INPUT					
Nominal Voltage (Vac)		208/220/230 (Default)/240			
Operating Voltage Range (Vac)		110-300 (110-300 @ 50% load/176-300 @ 100% load)			
Power Factor		≥0.99			
Harmonic distortion(THDi)		< 2%			
Bypass Voltage Range (Vac)		208/220 Max.voltage: +25% (Optional +10%, +15%, +20%) 230 Max.voltage: +20% (Optional +10%, +15%) 240 Max.voltage: +15% (Optional +10%) Min. voltage: -45% (Optional -10%, -20%, -30%)			
Bypass Frequency Range (Hz)		40~70			
OUTPUT					
Nominal Voltage (Vac)		208/220/230 (Default)/240			
Voltage Regulation		±1%			
Power Factor		1.0			
Output Frequency (Hz)		50/60±10% (Line mode); 50/60 (Default)±0.1% (Battery mode)			
Crest Factor		3:1			
Harmonic Distortion (THDv)		<1% (Full linear load); <3% (Full nonlinear load)			
Transfer Time (ms)		AC mode to Bat. mode: 0; Inverter to Bypass: 0			
Waveform		Pure Sinewave			
Overload	Online Mode	105%~110%: 60 min; 110%~125%: 10 min; 125%~150%: 1 min; >150%: 0.5 sec			
	Battery Mode	105%~110%: 10 min; 110%~125%: 1 min; 125%~150%: 10 sec; >150%: 0.5 sec			
	Bypass Mode	105%~130%: Overload alarm; 130%~150%: 10 min; 150%~200%: 1 min; >200%: 0.5 sec			
		Breaker 40A		Breaker 63A	
EFFICIENCY					
AC Mode		Up to 95.0%		Up to 95.5%	
ECO Mode		Up to 98.8%		Up to 99.0%	
BATTERY					
Battery Type		VRLA (Lead acid maintenance free battery)			
Battery Voltage (Vdc)		192 (Default)/216/240	192/240 (Default)	192 (Default)/216/240	192/240 (Default)
Battery Capacity (Ah)		7 (9 Optional)		9 (7 Optional)	
Typical Recharge Time (hours)		6 ~ 8 (To 90% of full capacity)			
Charging Current (Max.)(A)		12 (15 Optional)	1.35 Default (12/15 Optional)	15	1.35 Default (15)
		Charging current adapts to the battery type and battery capcacity			
MANAGEMENT					
LED Display		Online mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault			
LCD Display		Input voltage, Input frequency, Input current, Output voltage, Output frequency, Output current, Load percentage, Battery voltage, Battery chariging/ discharging current, Ambient temperature & Remaining battery backup time			
ENVIRONMENTAL					
Operating Temperature (℃)		0~40			
Storage Temperature (℃)		-25~55			
Humidity Range		0~95%RH @ 0~40℃ (Non condensing)			
Altitude (m)		<1000, derating required between 1000 to 3000			
Noise Level (dB)*		<45		<50	
PHYSICAL					
Dimension WxDxH (mm)		191×460×337	191×460×720 (With caster)	191×460×337	191×460×720 (With caster)
Weight (kg)		12.5	54	14	63
STANDARDS					
Safety		EN IEC 62040-1: 2019+A11:2021			
EMC		IEC 62040-2-2016, EN 62040-2-2018 C2			
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021			

*Online mode, full load, float charging

MP BT 6-10kVA Battery Pack Specification

MODEL	MP BT40240		
BATTERY SYSTEM			
Battery Type	VRLA (Lead acid maintenance free battery)		
Typical Battery Recharge Time (hours)	6~8 (To 90% of full capacity)		
Typical Battery Life (years)	3~5 years, depend on discharing cycle and ambient temperature		
System Voltage (Vdc)	192	216	240
Battery Quantity (pcs)	2×16	2×18	2×20
Capacity (Ah)	7/9		
PHYSICAL			
Dimension WxDxH (mm)	250×619×616 (With caster)		
Weight (kg)	106/114	114/124	122/134
ENVIRONMENTAL			
Operating Environment (℃)	0~40		
Humidity Range	0~95%RH @ 0~40℃ (Non condensing)		
Altitude (m)	<1000, derating required between 1000 to 3000		
Noise Level (dB)	<40		
STANDARDS			
Safety	EN IEC 62040-1: 2019+A11:2021		

Memopower RT Pro-IV Series

1:1 Phase PF 1.0

Power range: 6~10kVA

5 Kinds of LCD can be selected

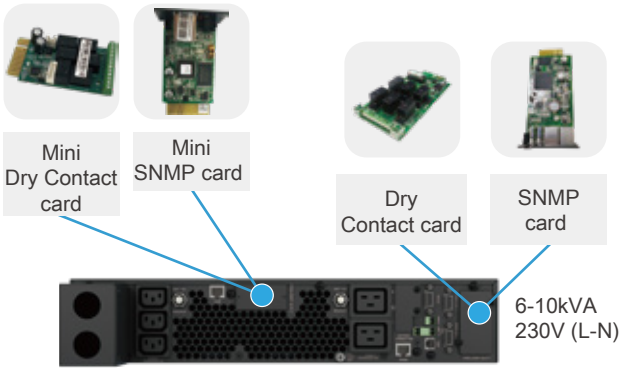
2U UPS+2U
Lithium Battery Pack

2U UPS+3U
VRLA Battery Pack

4U UPS
VRLA Battery Built-in

Features

- Lithium or VRLA battery selectable
- Wide input voltage range: 110~300Vac
- Dual input source (Optional)
- Generator compatible
- Support customized common battery banks, when UPSs are used in parallel and only for VRLA version
  (The battery banks should be configured with neutral line)
- 4U Standard version is available with external battery port (Optional)
- Programmable receptacles
- The 3.5 in touchscreen supports both lithium and VRLA battery versions, the three segment LCDs are compatible with VRLA version only
- Multiple communication interface: RS232/USB/RS485/EPO/PDU signal/Battery temperature signal/Battery group signal/Dual Intelligent card slot (Mini card slot optional)
- Maximum charging current up to 15A
- Cold start function (Only for VRLA battery)
- Dual Intelligent card slot for touch screen version (Segment LCD optional)
- Dry contact port optional (4 pins input and 4 pins output)
- Rail (Optional)
- PDU with maintenance bypass switch (Optional)
- Intelligent fan speed regulation
- Low noise design, less than 45dB for 6kVA
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- IEC62619/UL1973/UN 38.3 certified lithium battery pack



Multifunctional
Bracket

The 3.5 inch touch screen LCD panel
can be rotated
(Touch screen is gravity sensing)

Technical Specifications

MODEL		MP RT Pro 6k H	MP RT Pro 6k S	MP RT Pro 10k H	MP RT Pro 10k S
Capacity (VA/W)		6000/6000		10000/10000	
INPUT					
Nominal Voltage (Vac)		208/220/230 (Default)/240			
Operating Voltage Range (Vac)		110~300 (110~300@50% load/176~300@100% load)			
Power Factor		≥0.99			
Input Connection		HW terminal (L+N+G)			
Harmonic Distortion (THDi)		< 2%			
Bypass Voltage Range (Vac)		Max.voltage: 208/220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -10%,-20%, -30%)			
OUTPUT					
Nominal Voltage (Vac)		208/220/230 (Default)/240			
Voltage regulation		±1%			
Power Factor		1.0			
Output Connection		Programmable: C19*2+C13*3; Non-programmable: HW terminal (L+N+G)			
Output Frequency (Hz)		Online mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Battery mode: 50/60±0.1%			
Crest Factor		3:1			
Harmonic Distortion (THDv)		<1% Linear load ; <3% Non linear load			
Transfer Time(ms)		AC mode to Bat.mode: 0; Inverter to Bypass: 0			
Waveform		Pure Sinewave			
Overload	Online mode	Load≤110%, last 60min; ≤125%, last 10min; ≤150%, last 1min; >150%, turn to bypass mode immediately			
	Battery mode	Load≤110%, last 10min; ≤125%, last 1min; ≤150%, last 10 second; >150%, 0.5 second shut down			
	Bypass mode	105%≤load≤130%, only overload alarm; ≤150%, last 10min; ≤200%, last 1min; >200%, 0.5 second shut down			
EFFICIENCY					
AC Mode		Up to 95%		Up to 95.5%	
ECO Mode		Up to 98.8%		Up to 99%	
BATTERY					
Battery Voltage (Vdc)	VRLA battery	192 (Default)/216/240	192 (7/9Ah)	192 (Default)/216/240	192 (9Ah)
	Lithium battery	192	/	192	/
Charging Current (Max.)(A)		12 (15 Optional)	1.35 Default (12, 15 Optional)	15	1.35 Default (15 Max.)
		Charging current adapts to the battery type and battery capcacity			
MANAGEMENT					
LED Display		Online mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault			
LCD Display		Input voltage, Input frequency, Input current, Output voltage, Output frequency, Output current, Load percentage, Battery voltage, Battery chariging/discharging current, Ambient temperature & Remaining battery backup time			
ENVIRONMENTAL					
Operating Temperature (℃)		0~40			
Storage Temperature (℃)		-25~55			
Humidity Range		0~95%RH @ 0~40℃ (Non condensing)			
Altitude (m)		<1000, derating required between 1000 to 3000			
Noise Level (dB)		<45		<50	
PHYSICAL					
Dimension WxDxH (mm)		440×621.5×86.5 (2U)	440×621.5×175 (4U)	440×621.5×86.5 (2U)	440×621.5×175 (4U)
Weight (kg)		15	57/65	17	67
STANDARDS					
Safety		EN IEC 62040-1: 2019 + A11:2021			
EMC		IEC 62040-2: 2016, EN IEC 62040-2: 2018, C2			
Performance		IEC 62040-3: 2021, EN IEC 62040-3: 2021			

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. *Online mode, full load, float charging

PDU Specification

Parallel PDU	MP PDU10000	MP PDU20000P
Capacity (VA/W)	10000/10000	20000/20000
Nominal Input / Output Voltage (Vac)	208~240	
Max Input Current (A)	60	120
Input Connection	Terminal (L+N+G)	
Input Protection	63A Breaker	63A Breaker×2
Output Connection	Terminal+IEC C19×4+IEC C13×6	Terminal+IEC C19×2+IEC C13×3
Output Protection	63A breaker+16A breaker×2+10A breaker×2	63A breaker×2+16A breaker+10A breaker
Maintenance Bypass Protection	63A Breaker	125A Breaker
Dimension W×D×H (mm)	440×621.5×86.5 (2U)	440×621.5×86.5 (2U)
Weight (kg)	10.5	11.5
ENVIRONMENT		
Operating Temperature (℃)	0~40	
Storage Temperature (℃)	-25~55	
Humidity Range	0~95%RH @ 0~40℃ (Non condensing)	
Altitude (m)	<1000, derating required between 1000 to 3000	
STANDARDS		
Safety	EN IEC 62040-1: 2019 + A11: 2021	

MP BR 6-10kVA Battery Pack Specification

MODEL	MP BR16192	MP BR20240
BATTERY SYSTEM		
Battery Type	VRLA (Lead acid maintenance free battery)	
Typical Battery Recharge Time (hours)	4 (To 90% of full capacity)	
Typical Battery Life (years)	3~5, depend on discharing cycle and ambient temperature	
System Voltage (Vdc)	192	240
Battery Quantity (pcs)	1×16	1×20
Capacity (Ah)	7/9	
PHYSICAL		
Dimension WxDxH (mm)	440×681.5×131 (3U)	
Weight (kg)	47/55	55/65
ENVIRONMENTAL		
Operating Environment (℃)	0~40	
Humidity Range	0~95%RH @ 0~40℃ (Non condensing)	
Altitude (m)	<1000, derating required between 1000 to 3000	
Noise Level (dB)	< 40	
STANDARDS		
Safety	EN IEC 62040-1: 2019 + A11: 2021; UL 1778: 2014 R4.23, CSA C22.2 NO. 107.3-14 + GI1	

Specifications are subject to change without prior notice.
Remark: MP BR20240 "MP" means series; "BR" means Battery Rack; "20" means battery number inside the Rack;
"240" means the battery system voltage.

KLi 5-30kVA Battery Pack Specification

MODEL	KLi-192S12BP
BATTERY SYSTEM	
Battery Type	$LiFePO_4$
Typical Battery Recharge Time (hours)	2 (To 90% of full capacity)
Typical Battery Life (years)	8~10, depend on discharing cycle and ambient temperature
System Voltage (Vdc)	192
Capacity (Ah)	12
PHYSICAL	
Dimension WxDxH (mm)	440×684×86.5 (2U)
Weight (kg)	34
ENVIRONMENTAL	
Operating Environment (℃)	0~50
Humidity Range	0~95%RH @ 0~50℃ (Noncondensing)
Altitude (m)	<1000, derating required between 1000 to 3000
Noise Level (dB)	<40
STANDARDS	
EMC	EN IEC 61000-6-1:2019; EN IEC 61000-6-3:2021; BS EN IEC 61000-6-1: 2019; BS EN IEC 61000-6-3: 2021
Transportation	UN38.3
Safety	ANSI/CAN/UL 1973:2022; IEC 62619:2022 (Li-ion battery cell: UL1642)

Specifications are subject to change without prior notice.
Remark: KLi-192S12BP "KLi" means series; "192" means system voltage; "S" means no battery neutral system;
"BP" means battery pack.

Memopower-III Series

3:1 phase PF 0.9

Power range: 10~20kVA

Segment LCD

TFT Colourful LCD

Battery Cabinet (Optional)

Optimized Battery Configuration 7/9Ah

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 (Dry contact card/SNMP card/Parallel kit optional)

Dry contact card

Parallel cable

SNMP card

Parallel board

Technical Specifications

MODEL		MP31 10k H	MP31 10k S	MP31 15k H	MP31 15k S	MP31 20k H	MP31 20k S
Capacity (VA/W)		10k/9k		15k/13.5k		20k/18k	
INPUT							
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE); 220/230/240 (L+N+PE)					
Operating Voltage Range (Vac)		208~478; 120~276					
Bypass Voltage Range (Vac)		Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -20%, -30%)					
Bypass Frequency Range (Hz)		40~70 (50/60 Auto-Sensing)					
OUTPUT							
Nominal Voltage (Vac)		220/230/240 (L+N+PE)					
Voltage Regulation		±1%					
Power Factor		0.9					
Output Frequency (Hz)		Line mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. mode: (50/60±0.1%)					
Crest Factor		3:1					
Harmonic Distortion (THDv)		≤2% Linear load; ≤5% Non linear load					
Transfer Time (ms)		AC mode to Bat. mode: 0; Inverter to Bypass: 0					
Waveform		Pure Sinewave					
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	
Efficiency							
AC Mode		Up to 93.5%		Up to 94.5%			
ECO Mode		Up to 97.5%		Up to 98.0%			
BATTERY							
Battery Type		VRLA (Lead acid maintenance free battery)					
Battery Voltage (Vdc)	Standard unit	Chassis 1: ±120 (20pcs 9Ah) (20pcs 7Ah、2×20pcs 7/9Ah optional)		±120 (2×20pcs 9Ah) (2×20pcs 7Ah optional)			
		Chassis 2: ±96 (16pcs 9Ah) or ±120 (20pcs 7/9Ah) optional					
	Long run unit	±96~±120 (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 (Max.) (A)		14	1.35 (2.7 Optional)	16	2.7	18	2.7
		Charging current can be set according to battery capacity					
MANAGEMENT							
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					
ENVIRONMENTAL							
Operating Temperature (℃)		0~40					
Storage Temperature (℃)		-25~55					
Humidity Range		0~95%RH @ 0~40℃ (Non condensing)					
Altitude (m)		<1000, derating required between 1000 to 3000					
Noise Level (dB)		<55				<58	
PHYSICAL							
Dimension WxDxH (mm)	Standard unit	Chassis 1: 250×900×868		250×900×868			
		Chassis 2: 250×645×715					
	Long run unit	220×531×450					
Weight (kg)	Standard unit	Chassis 1: 114 (20pcs 9Ah)		167 (2×20pcs 9Ah)		171 (2×20pcs 9Ah)	
		Chassis 2: 87 (20pcs 9Ah)					
	Long run unit	22		24		28	
STANDARDS							
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
BATTERY SYSTEM	
Battery Type	VRLA (Lead acid maintenance free battery)
Typical Battery Recharge Time (hours)	6~8 (To 90% of full capacity)
Typical Battery Life (years)	3~5, depend on discharing cycle and ambient temperature
System Voltage (Vdc)	±120
Battery Quantity (pcs)	2×20
Capacity (Ah)	7/9
PHYSICAL	
Dimension WxDxH (mm)	250×619×616 (With caster)
Weight (kg)	122/134
ENVIRONMENTAL	
Operating Environment (℃)	0~40
Humidity Range	0~95%RH @ 0~40℃ (Non condensing)
Altitude (m)	<1000, derating required between 1000 to 3000
Noise Level (dB)	<40
STANDARDS	
Safety	IEC/EN 62040-1, IEC/EN 62477-1

MODEL	YDC3320 BT80120N
BATTERY SYSTEM	
Battery Type	VRLA (Lead acid maintenance free battery)
Typical Battery Recharge Time (hours)	6~8 (To 90% of full capacity)
Typical Battery Life (years)	3~5, depend on discharing cycle and ambient temperature
System Voltage (Vdc)	±120
Battery Quantity (pcs)	4×20
Capacity (Ah)	7/9
PHYSICAL	
Dimension WxDxH(mm)	250×900×868 (With caster)
Weight (kg)	244/265
ENVIRONMENTAL	
Operating Environment (℃)	0~40
Humidity Range	0~95%RH @ 0~40℃ (Noncondensing)
Altitude (m)	<1000, derating required between 1000 to 3000
Noise Level (dB)	<40
STANDARDS	
Safety	IEC/EN 62040-1, IEC/EN 62477-1

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: 10~20kVA

Segment LCD

TFT Colourful LCD

7 Inch Colourful LCD

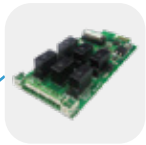
Battery Cabinet (Optional)

Optimized Battery Configuration 7/9Ah

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 (Dry contact card/SNMP card/Parallel cable/Battery temperature sensor optional)

SNMP card



Dry contact card

SNMP card

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 (VA/W)		10k/10k		15k/15k		20k/20k	
INPUT							
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE); 220/230/240 (L+N+PE)					
Operating Voltage Range (Vac)		208~478; 120~276					
Operating Frequency Range (Hz)		40~70 (50/60 Auto-Sensing)					
Power Factor		≥0.99					
Harmonic Distortion (THDi)		≤3% Linear load					
Bypass Voltage Range (Vac)		Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -10%, -20%, -30%)					
Bypass Frequency Range (Hz)		50/60±10%					
OUTPUT							
Nominal Voltage (Vac)		220/230/240 (L+N+PE)					
Voltage Regulation		±1%					
Power Factor		1.0					
Output Frequency (Hz)		Line mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. mode: (50/60±0.1%)					
Crest Factor		3:1					
Harmonic Distortion (THDv)		≤2% Linear load; ≤5% Non linear load					
Transfer Time (ms)		AC mode to Bat. mode: 0; Inverter to Bypass: 0					
Waveform		Pure Sinewave					
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	
Efficiency							
AC Mode		Up to 94.5%					
ECO Mode		Up to 98%				Up to 98.2%	
BATTERY							
Battery Type		VRLA (Lead acid maintenance free battery)					
Battery Voltage (Vdc)	Standard unit	Chassis 1: ±120 (20pcs 9Ah) (20pcs 7Ah、2×20pcs 7/9Ah optional)		±120 (2×20pcs 9Ah) (2x20pcs 7Ah optional)			
		Chassis 2: ±96 (16pcs 9Ah)					
	Long run unit	±96~±120 (16~20pcs, 16pcs default, Standard unit and 20pcs no power derating; 18pcs output power factor 0.9; 16pcs output power factor 0.8)					
		±192/204/216/228/240 (32/34/36/38/40pcs supportable)					
Charging Current (Max.) (A)		14	1.35 (2.7 Optional)	16	2.7	18	2.7
		Charging current can be set according to battery capacity					
MANAGEMENT							
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					
ENVIRONMENTAL							
Operating Temperature (℃)		0~40					
Storage Temperature (℃)		-25~55					
Humidity Range		0~95% (Non condensing)					
Altitude (m)		<1000, derating required between 1000 to 3000					
Noise Level (dB)		<55				<58	
PHYSICAL							
Dimension WxDxH (mm)	Standard unit	Chassis 1: 250×900×868		250×900×868			
		Chassis 2: 250×645×715					
	Long run unit	250×580×655					
Weight (kg)	Standard unit	Chassis 1: 125 (20pcs 9Ah)		180 (2×20pcs 9Ah)		181 (2×20pcs 9Ah)	
		Chassis 2: 78 (16pcs 9Ah)					
	Long run unit	33		37		38	
STANDARDS							
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
BATTERY SYSTEM	
Battery Type	VRLA (Lead acid maintenance free battery)
Typical Battery Recharge Time (hours)	6~8 (To 90% of full capacity)
Typical Battery Life (years)	3~5, depend on discharing cycle and ambient temperature
System Voltage (Vdc)	±120
Battery Quantity (pcs)	2×20
Capacity (Ah)	7/9
PHYSICAL	
Dimension WxDxH (mm)	250×619×616 (With caster)
Weight (kg)	122/134
ENVIRONMENTAL	
Operating Environment (℃)	0~40
Humidity Range	0~95%RH @ 0~40℃ (Non condensing)
Altitude (m)	<1000, derating required between 1000 to 3000
Noise Level (dB)	<40
STANDARDS	
Safety	IEC/EN 62040-1, IEC/EN 62477-1

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
BATTERY SYSTEM	
Battery Type	VRLA (Lead acid maintenance free battery)
Typical Battery Recharge Time (hours)	6~8 (To 90% of full capacity)
Typical Battery Life (years)	3~5, depend on discharing cycle and ambient temperature
System Voltage (Vdc)	±120
Battery Quantity (pcs)	4×20
Capacity (Ah)	7/9
PHYSICAL	
Dimension WxDxH (mm)	250×900×868 (With caster)
Weight (kg)	244/265
ENVIRONMENTAL	
Operating Environment (℃)	0~40
Humidity Range	0~95%RH @ 0~40℃ (Non condensing)
Altitude (m)	<1000, derating required between 1000 to 3000
Noise Level (dB)	<40
STANDARDS	
Safety	IEC/EN 62040-1, IEC/EN 62477-1

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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: 6~10kVA

Segment LCD

TFT Colourful LCD

Battery Cabinet (Optional)

Optimized Battery Configuration 7/9Ah

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 (Dry contact card/SNMP card/BMS optional)
- PDU with maintenance bypass switch (Optional)

SNMP card

Dry contact card

Technical Specifications

MODEL		MP31 RT 6k	MP31 RT 10k
Capacity (VA/W)		6000/6000	10000/10000
INPUT			
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE); 220/230/240 (L+N+PE)	
Operating Voltage Range (Vac)		208~478; 120~276	
Operating Frequency Range (Hz)		40~70 (50/60 Auto-Sensing)	
Power Factor		≥0.99	
Harmonic Distortion (THDi)		≤3% Linear load	
Bypass Voltage Range (Vac)		Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -10%, -20%, -30%)	
Bypass Frequency Range (Hz)		50/60±10%	
OUTPUT			
Nominal Voltage (Vac)		220/230/240 (L+N+PE)	
Voltage Regulation		±1%	
Power Factor		1.0	
Output Frequency (Hz)		Line mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. mode: (50/60±0.1%)	
Crest Factor		3:1	
Harmonic Distortion (THDv)		≤2% Linear load; ≤5% Non linear load	
Transfer Time (ms)		AC mode to Bat. mode: 0; Inverter to Bypass: 0	
Waveform		Pure Sinewave	
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)	
Efficiency			
AC Mode		Up to 93.5%	
ECO Mode		Up to 98.0%	
BATTERY			
Battery Type		VRLA (Lead acid maintenance free battery)	
Battery Voltage (Vdc)		±96/±108/±120 (16/18/20pcs optional); (16pcs default, 20pcs no power derating; 18pcs output power factor 0.9; 16pcs output power factor 0.8;)	
		±192/204/216/228/240 (32/34/36/38/40pcs supportable)	
Charging Current (Max.)(A)		12	14
MANAGEMENT			
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	
ENVIRONMENTAL			
Operating Temperature (℃)		0~40	
Storage Temperature (℃)		-25~55	
Humidity Range		0~95%RH @ 0~40℃ (Non condensing)	
Altitude (m)		<1000, derating required between 1000 to 3000	
Noise Level (dB)		<53	<55
PHYSICAL			
Dimension WxDxH (mm)		443×580×131 (3U)	
Weight (kg)		27	28
STANDARDS			
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 BT20120N
BATTERY SYSTEM	
Battery Type	VRLA (Lead acid maintenance free battery)
Typical Battery Recharge Time (hours)	6~8 (To 90% of full capacity)
Typical Battery Life (years)	3~5, depend on discharing cycle and ambient temperature
System Voltage (Vdc)	±120
Battery Quantity (pcs)	1×20
Capacity (Ah)	7/9
PHYSICAL	
Dimension WxDxH (mm)	443×720×131 (3U)
Weight (kg)	58/63
ENVIRONMENTAL	
Operating Environment (℃)	0~40
Humidity Range	0~95%RH @ 0~40℃ (Non condensing)
Altitude (m)	<1000, derating required between 1000 to 3000
Noise Level (dB)	<40
STANDARDS	
Safety	IEC/EN 62040-1, IEC/EN 62477-1

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
BATTERY SYSTEM	
Battery Type	VRLA (Lead acid maintenance free battery)
Typical Battery Recharge Time (hours)	6~8 (To 90% of full capacity)
Typical Battery Life (years)	3~5, depend on discharing cycle and ambient temperature
System Voltage (Vdc)	±120
Battery Quantity (pcs)	2×20
Capacity (Ah)	7/9
PHYSICAL	
Dimension WxDxH (mm)	443×861.5×175 (4U)
Weight (kg)	138/154
ENVIRONMENTAL	
Operating Environment (℃)	0~40
Humidity Range	0~95%RH @ 0~40℃ (Non condensing)
Altitude (m)	<1000, derating required between 1000 to 3000
Noise Level (dB)	<40
STANDARDS	
Safety	IEC/EN 62040-1, IEC/EN 62477-1

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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

Our Solution

UPS Solution
Transformer-less
Memopower Series
1~40kVA

UPS Solution
Transformer-less
HPM3300E Series
30~1200kVA

UPS Solution
Robust Transformer-based
UPS Series
1~800kVA

Precision Cooling Series
5~300kW

Data Center Integrated
Solution
IDU/IDM/IDB/IOU Series

Lead-acid Battery Series
3.5~250Ah (12V)
200~3000Ah (2V)

UPS Solution
Line Interactive UPS Series
0.4~3kVA

UPS Solution
Transformer-less
YDC3300 Series
10~200kVA

UPS Solution
Transformer-less UL
Products Series
1~100kVA

KSTAR

Kstar

HEADQUARTERS
Add: 4 / F, No.1 Bldg.Software Park, Keji C. Rd. 2nd, Hi-Tech Industrial Zone, Shenzhen 518057, P.R.China

FACTORIES ADDRESS
Add: Kstar Industrial Park, Guangming High-tech Zone, Shenzhen
Add: Kstar Industrial Park, Zhongkai High-tech Zone, Huizhou, Guangdong
Add: Kstar Industrial Park, Fuyuan Industrial Zone, Guanlan, Shenzhen
Add: CATL-KSTAR Science and Technology Co.,Ltd.
Add: Jiangxi Changxin Golden Sunshine Power Co., Ltd.
Add: Jiangsu Kstar Energy Technology Co., Ltd.
Add: KSTAR (Vietnam) Co., Ltd.

Website: www.kstar.com
Fax: +86-755-86168482
Tel: +86-755-86169858
E-mail: sales@kstar.com

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