



The Memopower Plus Parallel Redundancy on-line series, featured with N+X parallel redundancy, DSP-controlled technology, high input & output power factors, superior input voltage window for energy saving, estimated remaining time, ECO mode, is an ideal solution to your server, bank, industrial equipment, IT equipment, communication system or other networking equipment, which is demanding for a thorough protection.

Features

- N+X Parallel Redundancy
- Online Double Conversion with DSP Control
- Graphic LCD Display with Multifunction Parameter Settings
- Unity Input Power Factor with Low Input Current Distortion
- High Output Power Factor at 0.9PF
- Low Input Current Distortion
- Green Concept design with Superior Input Voltage Window for Energy Saving
- Support Generator Input
- Estimated Remaining Time displayed on the LCD.
- Support Economic(ECO) Operation Mode
- Settable Battery Voltage
- Automatic Battery Test Available
- Load -controlled fan
- Matching Battery Pack with Powerful Charger Built-in
- Common Battery When UPS in Parallel Mode
- Versatile Communication Interfaces Available
- Cold Start
- Communication Software
- Optional Centralized monitor function
- Settable Charge Current

Memopower Plus Parallel Redundancy Online Tower UPS Series

MP9106 | MP9110 | MP9310 | MP9315 | MP9320

N+X Parallel Redundancy

To increase the total capacity of the UPS system or to configure a parallel redundant system, you may simply connect parallel cable in ring loop.

Up to 4 UPS systems may be connected in parallel to get maximum power capacity.



Online Double Conversion with DSP Control

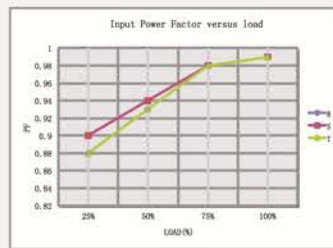
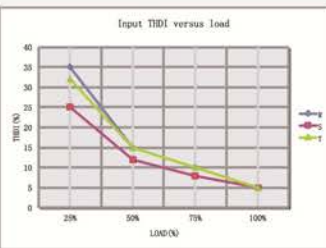
With the advanced DSP Control technology, the Memopower Plus parallel redundancy UPS not only corrects power disturbances in Mains but also achieves higher reliability and greater immunity from Utility power problems to the load connected.

Graphic LCD Display with Multifunction Parameter Settings

With graphic LCD display, it is easy to get all precious read-out data about the status of the UPS; besides, you may easily set various parameters from the screen.

Unity Input Power Factor with Low Input Current Distortion

Thanks for DSP Control technology implemented, the UPS may reach Unity Power factor $\geq 98\%$ and low input current THD $< 5\%$



Green Concept design with Superior Input Voltage Window for Energy Saving

To contribute ourselves as green energy providers, the UPS is designed to accept a wide range of input voltage from 120-276Vac(single phase) or 304-478Vac(three phase) to stabilize into 220/230/240Vac or 380/400Vac output without using battery energy.

Estimated Remaining Time displayed on the LCD.

Estimated remaining time may be displayed on the LCD to enable user to know when time out reaches and shuts down his precious load in time.

Flexible Battery Voltage Configuration

The battery voltage can be set as +/-8, +/-9 or +/-10 blocks, which enables you more flexibility to choose the correct size of the batteries.

More flexible features are available

Optional Frequency Converter Mode, Automatic Battery Test are under request.

Matching Battery Pack with Powerful Charger Built-in

To extend the UPS runtime, we also provide a series of matching battery pack with powerful charger built-in.



Common Battery When UPS in Parallel Mode

When several UPS works in parallel mode, these UPS may share with one battery pack only.

Versatile Communication Interfaces Available

The UPS is equipped with RS485, USB and additional communication slot to be connected with SNMP card, dry contact board for various application demands.



Cold Start

The UPS can be turned on without connecting to Utility.

Communication Software

The communication software provided allows the control of the UPS and graceful Shutdown when Utility fails, such as:

- Remotely test the major operation functions of the UPS
- Communicate via SNMP/Web/Network adapter
- Access UPS functions via the Web
- Alert users via SMS messages against specific events

Load-controlled Fan

The DC fan installed on the rear panel is **Load -controlled** It will spin according to the **Load -controlled** to reduce audible noise.

Settable Charge Current

The charge current can be set according to the battery capacity installed.

Memopower Plus Parallel Redundancy Online Tower UPS Series

Model		MP9106	MP9110	
Capacity (VA/W)		6KVA/5.4KW	10KVA/9KW	
Input	Phase	Single phase & Ground		
	Rated Voltage	220/230/240VAC		
	Voltage Range	120VAC-276VAC		
	Frequency Range	40Hz-70Hz		
	Power Factor	≥0.99		
	Current THDi	≤5%(100% nonlinear load)		
	Bypass Voltage Range	Max.voltage: +15%(optional +5%, +10%, +25%) Min. voltage: -45% (optional -20%, -30%) Frequency protection range: ±10%		
	ECO Range	same as the bypass		
	Generator Input	Support		
Output	Phase	Single phase & Ground		
	Rated Voltage	220/230/240VAC		
	Power Factor	0.9		
	Voltage Regulation	±2%		
	Frequency	Utility Mode	±1%, ±2%, ±4%, ±5%, ±10% of the rated frequency(optional)	
		Battery Mode	(50±0.2)Hz	
	Crest Factor	3:1		
	THD	≤2% with linear load ≤5% with non linear load		
Waveform	Pure Sinewave			
Efficiency		ECO mode≥97%; Normal mode≥90%		
Battery	Voltage	Standard: 192Vdc; Optional Voltage: 216/240Vdc		
	Capacity(standard unit)	12V/7AH	12V/9AH	
	Backup Time	Full load≥2min(Standard), Long time unit depends on the capacity of external batteries Estimated remaining time displayed on the LCD		
	Recharge time to 90%	8-10 hours (Standard)		
	Charging Current	1A		
Transfer Time		Utility to Battery : 0ms; Utility to bypass: 0ms		
Protection	Overload	AC Mode	Load≤110%: last 3min, ≤125%: last 30S, ≤150%: last 1S, ≥150% shut down UPS immediately.	
		Bat. Mode	Load≤110%: last 30S, ≤125%: last 1S, ≤150%: last 200ms, ≥150% shut down UPS immediately.	
		Bypass Mode	40A(Input Breaker) 60A(Input Breaker)	
	Short Circuit	Hold Whole System		
	Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately		
	Battery Low	Alarm and Switch off		
	Self-diagnostics	Upon Power On and Software Control		
	EPO(optional)	Shut down UPS immediately		
	Battery	Advanced Battery Management		
Noise Suppression	Complies with EN62040-2			
Alarms	Audible & Visual	Line Failure, Battery Low, Overload, System Fault		
Display	Status LED & LCD	Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault		
	Reading On the LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time		
Physical	Dimension(WxHxD)mm	250x655x590		
	Weight (Kg)	70	85	
	Input Connection	Hardwire		
	Output Connection	Hardwire		
Communication Interface		USB & RS485(standard), optional for SNMP card, Parallel card, Centralized monitoring card & dry contact card		
Environment	Operating Temperature	0°C-40°C		
	Storage Temperature	-25°C-+55°C		
	Humidity	0-95% non condensing		
	Altitude	< 1500m		
Noise	<60dB(at 1 meter)			
Safety Conformance		CE,EN/IEC 62040-2,EN/IEC 62040-1-1		

Battery Bank			
Model		MP-BT40007	MP-BT40009
Bat.Type		7AH	9AH
Max.Quantity		40 pcs	40 pcs
Physical	Unit Dimensions WxHxD (mm)	250x655x590	
	Weight (Kg)	107	125

Long Backup Model				
Model	Capacity	Weight	Charger	Battery Voltage
MP9106H	6KVA	30kgs	6A Max; charge current can be set according to battery capacity installed.	192/216/240Vdc; battery quantity(optional)
MP9110H	10KVA	40kgs	6A Max; charge current can be set according to battery capacity installed.	192/216/240Vdc; battery quantity(optional)

Memopower Plus Parallel Redundancy Online Tower UPS Series

Model		MP9310	MP9315	MP9320
Capacity (VA/W)		10KVA/9KW	15KVA/13.5KW	20KVA/18KW
Input	Phase	3 phase 4 wires and Ground		
	Rated Voltage	380/400/415VAC		
	Voltage Range	304~478VAC		
	Frequency Range	40Hz-70Hz		
	Power Factor	≥0.99		
	Current THDi	≤5%(100% nonlinear load)		
	Bypass Voltage Range	Max.voltage: +15%(optional +5%, +10%, +25%) Min. voltage: -45% (optional -20%, -30%) Frequency protection range: ±10%		
	ECO Range	same as the bypass		
	Generator Input	Support		
Output	Phase	Single phase & Ground		
	Rated Voltage	220/230/240VAC		
	Power Factor	0.9		
	Voltage Regulation	±2%		
	Frequency	Utility Mode	±1%, ±2%, ±4%, ±5%, ±10% of the rated frequency(optional)	
		Battery Mode	(50±0.2) Hz	
	Crest Factor	3:1		
	THD	≤2% with linear load ≤5% with non linear load		
	Waveform	Pure Sinewave		
Efficiency		ECO mode≥97%; Normal mode≥90%		
Battery	Voltage	10KVA Standard unit: 192Vdc; 192/216/240Vdc;battery quantity(optional)		
	Capacity(standard unit)	MP9310: 9AH; MP9310H:N/A	N/A	
	Backup Time	Full load≥2min(Standard), Long time unit depends on the capacity of external batteries Estimated remaining time displayed on the LCD		
	Recharge time to 90%	8~10 hours (10KVA Standard unit)		
	Charging Current	1A(10KVA Standard unit) ; Long time unit Maximum current 6A(charge current can be set according to battery capacity installed)		
Transfer Time		Utility to Battery : 0ms; Utility to bypass: 0ms		
Protection	Overload	AC Mode	Load≤110%: last 3min, ≤125%: last 30S, ≤150%: last 1S, ≥150% shut down UPS immediately.	
		Bat. Mode	Load≤110%: last 30S, ≤125%: last 1S, ≤150%: last 200ms, ≥150% shut down UPS immediately.	
		Bypass Mode	60A(Input Breaker)	100A(Input Breaker)
	Short Circuit	Hold Whole System		
	Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately		
	Battery Low	Alarm and Switch off		
	Self-diagnostics	Upon Power On and Software Control		
	EPO(optional)	Shut down UPS immediately		
	Battery	Advanced Battery Management		
Alarms		Audible & Visual		
Display	Status LED & LCD	Line Failure, Battery Low, Overload, System Fault Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault		
	Reading On the LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time		
Physical	Dimension(WxHxD)mm	250x655x590		
	Weight (Kg)	85kg(Standard unit)/40kgs(Long time unit)	45	45
	Input Connection	Hardwire		
	Output Connection	Hardwire		
Communication Interface		USB & RS485(standard), optional for SNMP card, Parallel card, Centralized monitoring card & dry contact card		
Environment	Operating Temperature	0°C~40°C		
	Storage Temperature	-25°C~+55°C		
	Humidity	0~95% non condensing		
	Altitude	< 1500m		
	Noise	<60dB(at 1 meter)		
Safety Conformance		CE,EN/IEC 62040-2,EN/IEC 62040-1-1		

Battery Bank			
Model	MP-BT40007	MP-BT40009	
Bat.Type	7AH	9AH	
Max.Quantity	40 pcs	40 pcs	
Physical	Unit Dimensions WxHxD (mm)	250x655x590	
	Weight (Kg)	107	125

Specifications subject to change without prior notice.



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