

(ONLINE UPS 1kVA-30kVA, Single Phase / Single Phase)





## MP1100 Series Brief

MP1100 series UPS is the new generation transformer based true online double conversion full digital controlled UPS. This series UPS adopts high-speed microprocessor (MCU), Programmable logic device (CPLD) program which are controlled by software, the sixth generation low-exhaust and big-power IGBT and static switch as power components. This series product combines the world's newest control spare parts and the most advanced software. It is designed to meet high availability and high power quality needs of a

wide variety of critical applications.

Mp1100 is widely used in telecom, bank, security, transporting, utility, manufacture, industry, commerce, government, medical equipment etc.

## Main Features

- LED+LCD display, make the operation easier via LCD panel.
- Low frequency true online double-conversion technology.
- Wide input voltage range, compatible with different utilities.
- Advanced digital circuit system design, increase the ups stability.
- Advanced & Intelligent battery management, extend the battery life.
- Intelligent inspection system, inspect all kinds of ups work status.
- High precision SMD technique, improve the circuit reliability and running precision.
- IGBT PWM inverter technology, provide the highest quality output power, efficiency is higher to 92%.
- Static bypass operation, provide safe failure to mains if ups is overloaded or develops a fault.
- Manual bypass operation, make the technical personnel work on faulty UPS, safe to change the inner units.
- 256 real time event log with detailed parameters.
- Standard RS232 & RS485, optional dry contacts or SNMP card for remote control.
- Excellent load characters, Fulfill saltus from 0-100% without switching to bypass, safeguard stable output.
- Input & output voltage, battery charge & discharge, temperature, short Circuit and overload etc. protections.
- Can Choose UPS, ECO, or Inverter Work Mode.
- Auto restart function.
- Perfect generator compatibility.
- Optional EPO function.
- Optional Battery detecting module.

MODEL	MP1101K	MP1102K	MP1103K	MP1104K	MP1106K	MP1108K	MP1110K	MP1115K	MP1120K	MP1130K
Capacity	1kVA	2kVA	3kVA	4kVA	6kVA	8kVA	10kVA	15kVA	20kVA	30kVA
Power Watt	0.8kW	1.6kW	2.4kW	3.2kW	4.8kW	6.4kW	8kW	12kW	16kW	24kW
Working Principle	Low Frequency Transformer Based True On Line-Double Conversion									
RECTIFIER (INPUT)										
Phase	Single Phase									
Input Power Factor	≧0.9 ( Plus Filter)									
Input Voltage Range	220VAC (230VAC or 240VAC)±25% , 1P+N+PE optional 110V(120V or 277V )									
Input Frequency Range	50Hz±10% / 60Hz±10% (Selectable)									
Output Ripple	<2%									
Soft Start	0~100% 5sec									
CHARGING										
Charging Mode	Constant current, then constant voltage, and charge with temperature compensation									
Float Charging Voltage	55VDC					220VDC				
Equalized Charging Voltage	56.8VDC					227VDC				
Temp. Compensated Voltage	-3mV/°C/cell									
Charging Current	5-10A									
BATTERY										
Type	VRLA/AGM/Gel, optional Lithium Battery									
Battery Capacity	7~999AH settable ( Configure Battery Capacity according to Back-up Time )									
Quantity	4units 12V or 24units 2V batteries (Battery Voltage 48VDC) 16units 12V or 96units 2V batteries (Battery Voltage 192VDC)									
Temperature	20°C~25°C (For Maximum Efficiency)									
INVERTER (OUTPUT)										
Phase	Single Phase									
Nominal Voltage	220VAC (230VAC or 240VAC), 1P + N optional 110V(120V or 277V )									
Output Voltage Regulated Accuracy	±1 % ( Stable load), ±3%( fluctuant load)									
Output Frequency Range	50Hz 60Hz<±0.5% ( Asynchronous )									
Crest Factor	> 3:1									
Output Total Harmonic Distortion (THD)	Pure Sine Wave, Linear Load < 3%, Non-Linear Load<5%									
Dynamic Characteristics	Instant voltage<±5% ( from 0 to100% ), Instant recover time<10ms									
Overload Capacity	At 115% load, normal work, At 125% load 10 min, At 150% load 1min, At 200% load 1S									
Inverter Efficiency	>92% ( full load )									
BYPASS										
Phase	Single Phase ( P+N )									
Nominal Voltage	220VAC (230VAC or 240VAC) optional 110V(120V or 277V )									
Transfer Time	0ms( adopt static switch )									
PROTECTION FUNCTION										
Input Protection	Input voltage, frequency over limited protection									
Output Protection	Over current, short circuit, over voltage, low voltage									
Battery Protection	Over charge, over-discharge protection									
Temperature Protection	Environment over temperature protection, inverter over temperature protection									
Hardware Fault Protection	Assistant power abnormal, breaker cut off, breaker overload, power devices over current/over voltage etc. protection									
GENERAL SYSTEM PARAMETERS										
Working Environment	Temp: -10~-40°C, relative humidity: 30%~90%, Altitude<2000m ( 1% decrease against 100 meters' rise, Max. altitude 4000m )									
Cooling Method	COMPULSIVE VENTILATION									
Communication Interface	RS232/ RS485, optional dry contact, SNMP card ( for remote control via internet )									
Parallel Operation	Tandem hot backup									
Anti-surge Capacity	10/700μS, 5KV; 8/20μS, 20KA									
Protection Level	IP21									
Safety Performance	Vin-n Vout-n 2000Vac, creepage<10mA , insulating resistance>2MΩ(500VDC)									
Noise (dB)	45~50			50~55			55~60			55~60
Dimension (W*D*H) mm	210*520*530			220*520*640			220*500*760			450*600*1200
Weight (Kg)	42	52	59	59	65	84	92	186	201	251

※100V-110V-120V Version is available

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