

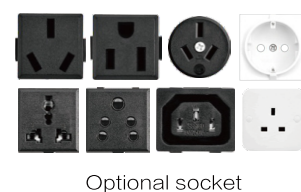
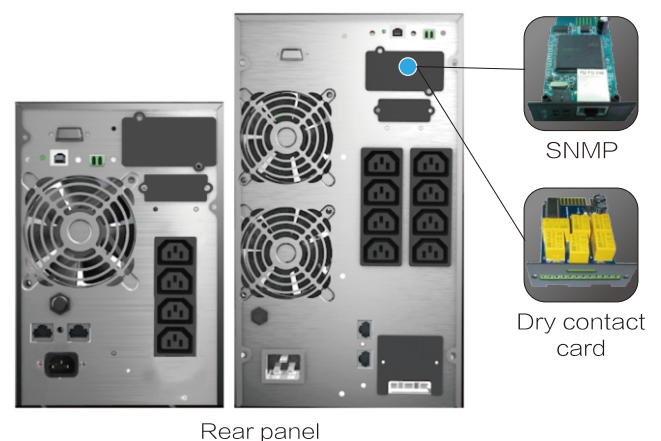
**AR-MP Series**  
**1 ~ 3kVA (1:1 Phase)**  
**PF 1.0 (kVA = kW)**





### 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: USB/RS232  
(EPO/Dry contact/SNMP card optional)
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm



MODEL		AR-MP1KH		AR-MP1KS		AR-MP2KH		AR-MP2KS		AR-MP3KH		AR-MP3KS	
Capacity		1kVA/1kW				2kVA/2kW				3kVA/3kW			
INPUT													
Nominal voltage		208/220/230/240Vac											
Input voltage range		110~300Vac (176~280Vac @ 100% load)											
Frequency range		40~70Hz (50/60Hz Auto-Sensing)											
Power factor		≥0.99											
OUTPUT													
Output voltage		208/220/230/240Vac											
Power factor		1.0											
Voltage regulation		± 1%											
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											
EFFICENCY													
AC mode		88%				90%				91%			
Battery mode		85%				87%				88%			
BATTERY													
Battery number		2	3	2	3	4	6	4	6	6	8	6	
Capacity (Standard unit)		9Ah/12V											
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	
INDICATORS													
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											
ALARM													
Battery mode		Beeping every 4 seconds											
Battery low		Beeping every second											
Overload		Beeping twice every second											
Fault		Continuously beeping											
PHYSICAL													
Dimension W x D x H (mm)		144 x 293 x 209			144 x 399 x 209			191 x 460 x 337					
Net weight (kg)		4.1	9.3	12.5	10	19.5	24.5	10	24.5				
ENVIRONMENT													
Operating temperature		0℃~40℃											
Storage temperature		-25℃~55℃											
Humidity range		20~95%RH @ 0~40℃ (Non condensing)											
Altitude		<1500m,derating required when>1500m											
Noise level		<50dB at 1 Meter											
STANDARDS													
Safety		IEC/EN62040-1,IEC/EN62477-1											
EMC		IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8											



### UPS



### EBC

#### External battery cabinets (EBC)

UPS	External Battery Cabinets
AR-MP1KS	MP BT06036C
AR-MP2KS	MP BT12072C
AR-MP3KS	MP BT12072C
AR-MP1KH	MP BT06036C
AR-MP2KH	MP BT12072C
AR-MP3KH	MP BT12072C

#### MP BT 1–3kVA battery pack specification

MODEL	MP BT04024C	MP BT06036C	MP BT08048C	MP BT12072C	MP BT16096C
BATTERY SYSTEM					
Battery tpye	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 discharing 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)				
PHYSICAL					
Dimension W x D x H (mm)	144 x 399 x 209		191 x 460 x 337		
Net weight (kg)	13.5	18.5	28.5	38.5	47.5
ENVIRONMENT					
Safety	CE				
Operating environment	0℃~40℃				
Relative humidity	0~95% (Non condensing)				
Noise level	<40dB at 1 Meter				

Specifications are subject to change without prior notice. When output voltage is 208Vac, need to derate to 80% of the unit capacity.  
 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.