

## ALPHA POWER UPS - 6~10 kVA (1:1 Phase) Tower / Rack Mounted

1:1 Phase PF 0.9

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/EPO (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 over discharge, output low voltage and fan fault alarm



**Technical Specifications:**

MODEL	AP RT110006	AP RT1100010
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% Nonlinear 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	94%	
<b>BATTERY</b>		
Battery voltage	±96/±108/±120Vdc (Settable)	
Capacity (Standard unit)	9Ah/12V (7Ah/12V optional)	
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 x D x H (mm)	440 x 625 x 86.5	
Net weight (kg)	16	18
<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/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	

Specifications are subject to change without prior notice.

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



## AP BR 6-10kVA battery pack specification

BATTERY SYSTEM	MP BR20120N
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* ± 10 PCS
Capacity	7Ah/9Ah (12V)
<b>PHYSICAL</b>	
Dimension W x D x H (mm)	440 x 680 x 131 (3U)
Net weight (kg)	58/63
<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: AP BR20120N "AP" means Alpha Power; "BR" means Battery Rack; "20" means battery number inside the Rack; "120" means the battery system voltage; "N" means battery with neutral connection.