

# ALPHA POWER UPS - 1~3 kVA (1:1 Phase)

## Tower / Rack Mounted

1:1 Phase PF 0.9

Power range: 1kVA~3kVA



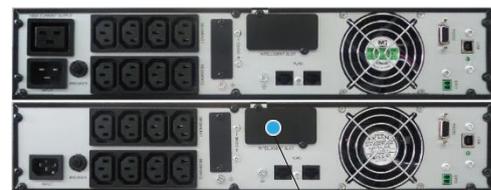
### Features

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



Multifunctional bracket

The LCD panel can be rotated



Optional socket

Relay card SNMP

**Technical Specifications:**

MODEL	APRT110001	APRT110002	APRT110003
Capacity	1000VA / 900W	2000VA / 1800W	3000VA / 2700W
<b>INPUT</b>			
Nominal voltage	208/220/230/240Vac		
Input voltage range	110~300Vac (176~280Vac @ 100% load)		
Power factor	≥0.99		
<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	46~54Hz or 56~64Hz		
Line mode			
Bat. mode	(50/60±0.1%) Hz		
Crest factor	3:1		
Harmonic distortion (THDv)	≤3% Linear load ≤5% Nonlinear load		
Transfer time	0ms		
AC mode to Bat. mode			
Inverter to Bypass	4ms (Typical)		
Output waveform	Pure Sinewave		
<b>EFFICIENCY</b>			
AC mode	89%	91%	92%
Battery mode	85%	87%	88%
<b>BATTERY</b>			
Battery number	2	4	6
Capacity (Standard unit)	9Ah/12V (7Ah/12V optional)		
Typical recharging time	4 hours (to 90% of full capacity)		
Charging voltage	27.4Vdc±1%	54.8Vdc±1%	82.2Vdc±1%
Charging current (Max.)	1A	1A	1A
<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 325 x 86.5	440 x 460 x 86.5	440 x 460 x 86.5
Net weight (kg)	11.3	10.5	11
<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	<50dB 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 1-3kVA Battery Pack Specification

MODEL	AP BR04024C	AP BR08048C	AP BR12072C
<b>BATTERY SYSTEM</b>			
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	24Vdc	48Vdc	72Vdc
Charging current (Max.)	1.4A		
Battery quantity	4	8	12
Capacity	9Ah/12V (7Ah/12V optional)		
<b>PHYSICAL</b>			
Dimension W x D x H (mm)	440 x 430 x 86.5	440 x 550 x 86.5	440 x 710 x 86.5
Net weight (kg)	17.4	31.5	44
<b>ENVIRONMENT</b>			
Safety	CE		
Operating environment	0°C~40°C		
Relative humidity	0~95% (Non condensing)		
Noise level	<40dB at 1 Meter		

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Remark: AP BR08048C "AP" means ALPHA POWER; "BR" means Battery Rack; "08" means battery number inside the Rack; "048" means the battery system voltage; "C" means the Rack coming with charger