

# Alpha RT

6KVA ~ 10KVA  
PF 0.9 (1 : 1)



## Features

- Rack / Tower design
- High frequency and true double-conversion
- DSP digital control technology
- Input power factor correction (PFC)
- Wide input voltage range (110 V ~ 300 V)
- Output power factor 0.9
- Cold start
- Auto sensing frequency
- ECO mode operation for energy saving
- Selectable output voltage via LCD
- 50 Hz / 60 Hz frequency conversion mode
- Selectable battery low voltage via LCD
- Power-on self test
- Advanced battery management (ABM)
- Short circuit and overload protection
- Automatic charging in OFF mode
- Fan speed auto control when temperature varies
- Standard RS232 communication port and RJ45 protection
- Optional USB / SNMP communication port
- Optional emergency power off (EPO)
- Optional extension battery bank
- Optional N+X redundancy parallel
- Optional external maintenance bypass

## Details

1. AC Input
2. Modem/Tel/Fax
3. DC Input
4. Outlet
5. Fan
6. RS232
7. USB (optional)
8. EPO (optional)
9. SNMP/AS400 (optional)
10. Parallel Card (optional)



## Technical specifications

MODEL	ALR 6000	ALR 10000
<b>Capacity</b>	6 KVA / 5400 W	10 KVA / 9000 W
<b>INPUT</b>		
Rated voltage	208 V / 220 V / 230 V / 240 Vac	
Voltage range	(115 ~ 295) ±5 Vac, (linear derating between 50% and 100% load); full load (165 ~ 295) ±5 V ac	
Frequency	40 ~ 70 Hz ±0.5% ( auto-sense)	
Power factor	≥ 0.99	
Bypass voltage range	rated output voltage*73%~ rated output voltage*115%	
<b>OUTPUT</b>		
Voltage	208 V / 220 V / 230 V / 240 Vac (settable via LCD)	
Voltage regulation	±1%	
Frequency	Synchronized with utility in mains mode; 50 / 60 Hz ±0.2 Hz in battery mode	
Waveform	Sinusoidal	
Crest factor	3:1	
Harmonic distortion	≤ 2% (linear load); ≤ 5% (non-linear load)	
Transfer time	Mains mode to battery mode: 0 ms; Inverter mode to bypass mode: 0 ms	
Overload	105% ~ 125% for 3 mins, 125% ~ 150% for 30 s, >150% for 0.5 s	
<b>EFFICIENCY</b>		
Mains mode	≥ 92%	
Battery mode	≥ 91%	
ECO mode	≥ 98%	
<b>BATTERIES</b>		
DC voltage	192 V	
Inbuilt battery of standard model	12 V / 7.0 Ah × 16	12 V / 9.0 Ah × 16
Charging current	Standard model	1 A
	Long time model	1 A / 3 A / 5 A / 8 A
Recharge time	8 h	
<b>ALARMS</b>		
Utility failure	4 s per beep	
Low battery	1 s per beep	
Overload	1 s twice beep	
UPS fault	Long beep	
<b>COMMUNICATIONS</b>		
RS232 (standard), USB (optional)	Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / Windows® 7 / 8 / 10	
SNMP (optional)	Power management from SNMP manager and web browser	
<b>OTHERS</b>		
Humidity	20~90% RH @ 0~40°C (non-condensing)	
Noise level	≤ 55 dB (1m)	
Extensible model	Dimensions (W × D × H) (mm)	440 × 555 × 132
	Packaged dimensions (W × D × H) (mm)	535 × 660 × 215
	Net / Gross weight (kg)	16.4 / 20.7
Standard model	Dimensions (W × D × H) (mm)	440 × 580 × 132 (UPS), 440 × 580 × 132 (BAT)
	Packaged dimensions (W × D × H) (mm)	535 × 660 × 215 (UPS), 540 × 685 × 235 (BAT)
	Net / Gross weight (kg)	17.1 / 21.4 (UPS)
		43.6 / 47.1 (BAT)
		49.6 / 53.1 (BAT)

\* Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208Vac  
\* All specifications subject to change without notice