



Freestanding Tower

## Pinnacle Double Conversion Uninterruptible Power Supply



- Advanced digital signal processing technology provides purest power to protect networking equipment.
- RS-232 interface connector for remote monitoring and an orderly shutdown during power failure.
- Optional SNMP internal slot for web agent or UPS expander card.
- Power factor correction.
- Highly effective power module - IGBT.
- True online double conversion design.
- Fine tuning output voltage and automatic bypass.
- DC auto cold start For convenience.
- HotSwap battery capability.

Alpha's Pinnacle Series UPS systems provide safe, clean, reliable power protection to networking equipment, telecommunication systems and other mission-critical applications. Pinnacle's advanced Digital Signal Processing (DSP) technology can quickly vary output conditions and continually offer pure sinewave power to critical equipment with zero transfer time. The advanced, scalable battery charger shortens the battery recharge time and prolongs the life of the battery. With true RS-232 two-way communication which sends signals to both the network and computer, the Pinnacle Series UPS can be monitored, shut down, or programmed with an on/off date, using its own software. Simplified control circuits makes the UPS lighter weight, easier to control, and more reliable due to the reduction of internal components.

## Nominal Specifications

Model	PIN-1000	PIN-2000	PIN-3000	PIN 5000	PIN 7000
Tower					
19" RackMount					
Capacity	1kVA / 700W	2kVA / 1400W	3kVA / 2100W	5kVA / 3500W	7kVA / 4900W
<b>AC Input</b>					
Voltage	100 / 110 / 115 / 120 VAC or 220 / 230 / 240 VAC Selectable			220 / 230 / 240 VAC (CE only)	
Voltage Range	80-138 or 160-274VAC Selectable	84 -138 VAC or 160 - 274 VAC Selectable		170 - 274 VAC	
Frequency	50Hz or 60Hz (auto sensing)				
Frequency Range	50/60 Hz +/- 5%	45-65 Hz			
Power Factor	>0.97 (Full Load)	>0.98 (Full Load)			
Unit Input Protection	Fuse	Circuit Breaker			
<b>AC Output</b>					
Voltage (Nominal)	100 / 110 / 115 / 120 VAC or 220 / 230 / 240 VAC			220 / 230 / 240 VAC	
Voltage Regulation	< 1%				
Voltage T.H.D.	< 2%				
Sync Range	3 Hz	1 or 3 Hz, Selectable			
Dynamic Response	+/- %5 @ 100%				
Overload Capacity	+/- %5 @ 100%	+/- 4% @ 100% Load Change			
	125% for 1 min. 150% for 10 sec. 300% for 3 sec.	125% for 1 min. 150% for 30 sec. 300% for 3 sec.		125% for 1 min. 150% for 10 sec. 300% for 3 sec.	
<b>Battery</b>					
DC Voltage	36V	72V	96V	240V	288V
Run Time @ 80% load	10 min	10 min	9 min	15 min	13 min
@ 50% load	20 min	20 min	15 min	31 min	27 min
Type	Maintenance-free, hot swappable, Sealed lead acid battery				
Recharge Time (to 90%)	< 4 hours				
<b>Alarm</b>					
Battery Discharge	The first warning will beep every 4 seconds to indicate battery in use. The second warning will beep every 1 second to signal battery low condition.				
UPS Fault	Continuous beeping sound				
<b>Interface</b>					
Front Panel Indicators	LED Normal Mode, Battery Mode, Bypass Mode, System Fault, Charger Status, Overload, Buzzer Status, Load Condition, Battery Condition, Battery Runtime.	LCD Input/Output Status, Ampere, Voltage, Frequency, Power, Normal Mode, Battery Mode, Bypass Mode, System Fault, Charger Status, Overload, Buzzer Status, Load Condition, Battery Condition, Battery Runtime.			
RS-232 Interface	Bi-directional communication port				
Software	UPSMART - UPS Power Management Software. Support for Windows95, Windows98 and Novell Netware.				
<b>Environment</b>					
Operating Temperature	0°C to 40°C				
Operating Humidity	10% to 90% (Non-condensing)				
Audible Noise Level @ 1 m					
Tower	<45 dBA				<50 dBA
19" Rackmount	<50 dBA				<52 dBA
Safety	UL, CUL, TUV, CE, FCC			CE	
<b>Mechanical</b>					
Dimensions (W x D x H) in (mm)					
Tower	5.7" x 15.9" x 8.7" (145mm x 405mm x 222mm)	8.5" x 17.6" x 14.4" (216mm x 448mm x 365mm)	8.5" x 17.6" x 14.4" (216mm x 448mm x 365mm)	8.5" x 24.3" x 26.7" (216mm x 616mm x 678mm)	8.5" x 24.3" x 26.7" (216mm x 616mm x 678mm)
19" Rackmount	16.7" x 17.2" x 3.5" (425mm x 438mm x 88mm)	16.7" x 20.0" x 7.0" (425mm x 510mm x 177mm)	16.7" x 20.0" x 7.0" (425mm x 510mm x 177mm)	—	—
Weight lbs (kg)					
Tower	32.4 (14.7)	66.0 (30.0)	79.4 (36.0)	95.0 (43.1)	108.0 (49.0)
19" Rackmount	73.9 (33.5)	84.9 (38.5)	98.1 (44.5)	—	—
<b>Warranty</b>					
Type	24 month Limited Warranty				



Rack Mount