Power

Alpha Pinnacle Plus

> **1000VA to 12kAV models**

> **True online, double conversion operation (zero transfer time)**

> **Internal Static Bypass**

> **Automatic Frequency Synchronization**

> **Power factor correction**

> **Optional Ethernet SNMP communications interface**

> **Hot swappable batteries**

The Alpha Pinnacle Plus Uninterruptible Power Supply (UPS), in tower or rack mount configurations provides safe, clean, reliable power protection to data and voice networking equipment, telecommunication systems, servers and other mission-critical applications. The Pinnacle Plus offers and advanced fully digitized microprocessor controlled technology can quickly react to varying output conditions and continually offer pure sine wave power to cricital equipment with zero transfer time. The advanced, scalable battery charger shortens the battery recharge time while prolonging the life of the battery. With true RS-232 two-way communication that sends signals to both the network and computer, the Pinnacle Plus can be monitored, shut down, or programmed with an on/off date, using its own software. Simplified control circuits make it light, easier to control, and more reliable due to the reduction of internal components.

Alpha Pinnacle Plus

Nominal Specifications

Model

	PIN 1000TXL 017-751-10	PIN 1500TXL 017-751-15	PIN 2000TXL 017-751-20	PIN 3000TXL 017-751-30
Tower Part Number:	PIN 1000TXL 017-751-10	PIN 1500TXL 017-751-15	PIN 2000TXL 017-751-20	PIN 3000TXL 017-751-30
Rack Mount 2U Part Number:	PIN 1000RMXL 017-751-122	PIN 1500RMXL 017-751-17	PIN 2000RMXL 017-751-22	PIN 3000RMXL 017-751-32
Capacity (VA/W):	1000VA/700W	1500VA/1050W	2000VA/1400W	3000VA/2100W
Input Plug:	NEMA 5-15P	NEMA 5-15P	NEMA L5-20P	NEMA L5-30P
Input Protection:	Circuit Breaker	Circuit Breaker	Circuit Breaker	Circuit Breaker

Receptacles

Tower:	6 NEMA 5-15R	6 NEMA 5-15R	10 NEMA 5-20R 1 NEMA L5-20R	10 NEMA 5-15R 1 NEMA L5-30R
Rack Mount:	6 NEMA 5-15R	4 NEMA 5-15R	2 NEMA 5-20R 1 NEMA L5-20R	2 NEMA 5-15R 1 NEMA L5-30R

Battery

DC Voltage:	36V	36V	72V	72V

Mechanical

Tower Dimensions (in):	6W x 16.5D x 9.4H	6W x 16.5D x 9.4H	8.9W x 16.7D x 14.2H	8.9W x 16.7D x 14.2H
Tower Dimensions (mm):	152.4W x 419.1D x 238.8H	152.4W x 419.1D x 238.8H	226.1W x 424.2D x 360.7H	226.1W x 424.2D x 360.7H
Tower Net Weight (lb/kg):	35.3/16	37.5/17	68.3/31	72.8/33
Tower Approx. Ship Weight (lb/kg):	40/18.2	41.8/19	73.9/33.3	78.1/35.5
Rack Mount Dimensions (in):	16.9W x 16.7D x 3.3H	16.9W x 16.7D x 3.3H	16.9W x 25D x 3.3H	16.9W x 25D x 3.3H
Rack Mount Dimensions (mm):	429.3W x 424.2D x 83.8H	429.3W x 424.2D x 83.8H	429.3W x 609.6D x 83.8H	429.3W x 609.6D x 83.8H
Rack Mount Net Weight (lb/kg):	37.5/17	39.7/18	70.6/32	72.8/33
Rack Mnt Approx. Ship Weight (lb/kg):	42.5/19.3	44.2/20.1	74.4/33.8	78.5/35.7

Battery Runtimes*

Tower at 50% Load				
UPS:	18 min	14 min	18 min	14 min
1 EBP:	148 min	92 min	80 min	50 min
2 EBP:	310 min	205 min	150 min	93 min
Tower at 100% Load				
UPS:	6 min	5 min	6 min	5 min
1EBP:	69 min	38 min	33 min	19 min
2 EBP:	150 min	80 min	69 min	40 min
Rack at 50% Load				
UPS:	18 min	14 min	18 min	14 min
1 EBP:	148 min	92 min	80 min	50 min
2 EBP:	310 min	205 min	150 min	93 min
Rack at 100% Load				
UPS:	6 min	5 min	6 min	5 min
1 EBP:	69 min	38 min	33 min	19 min
2 EBP:	90 min	80 min	69 min	40 min

* rounded to the nearest minute

Nominal Specifications

Model

	PIN 6000TXL 017-751-400	PIN 10000TXL 017-757-300	PIN 12000TXL 017-751-15
Tower Part Number:	PIN 6000TXL 017-751-400	PIN 10000TXL 017-757-300	PIN 12000TXL 017-751-15
Capacity (VA/W):	6000VA/4200W	10000VA/7000W	12000VA/8400W
Input Plug:	Terminal Block	Terminal Block	Terminal Block
Input Protection:	Circuit Breaker	Circuit Breaker	Circuit Breaker

Receptacles

Tower:	Terminal Block	Terminal Block	Terminal Block

Battery

DC Voltage:	240V	240V	240V

Mechanical

Tower Dimensions (in):	10.1W x 23.2D x 22.4H	10.1W x 27.2D x 28.2H	13.5W x 27.2D x 34.6H
Tower Dimensions (mm):	257W x 590D x 570H	257W x 690D x 715H	342W x 690D x 878H
Tower Net Weight (lb/kg):	Consult Factory	Consult Factory	Consult Factory
Tower Approx. Ship Weight (lb/kg):	Consult Factory	Consult Factory	Consult Factory

Battery Runtimes*

Tower at 50% Load			
UPS:	19 min	37 min	53 min
Tower at 100% Load			
UPS:	6 min	13 min	19 min

Alpha Pinnacle Plus

General Specifications

AC Input

Voltage (Selectable):	100/110/115/120/127V (PIN 700 to 3K)
	200/208/220/230/240 (PIN 6 to 12K)
Voltage Range:	80 to 144V at full load, 60 to 144V at 40% load (120V Units)
Frequency:	50/60Hz ±5% (auto sensing)

AC Output

Voltage:	100/110/115/120/127V (PIN 700 to 3K)
	200/208/220/230/240 (PIN 6 to 12K)
Frequency:	50 or 60Hz ±0.5% when on battery
Receptacle Segments:	2 – software controllable
Voltage THD, Linear Load:	<3%
Crest Factor:	3:1
Overload Capacity:	125% for 1min, 150% for 10sec
Transfer Time:	0ms
Extended Battery	
Recharge Time:	<4hrs to 90% recharge on internal battery
Type:	Valve Regulated Lead Acid (VRLA) Extended battery connection included. Extended battery packs available

Interface

Front Panel Indicators:	LCD display/input/output volts, frequency, load level, battery capacity, online/eco mode
Audible Alarm:	On Battery – 5 second interval, UPS fault – continuous
Communications:	RS-232, communications expansion slot, USB standard (Options: AS400 Card, UPS LAN Card)

Environment

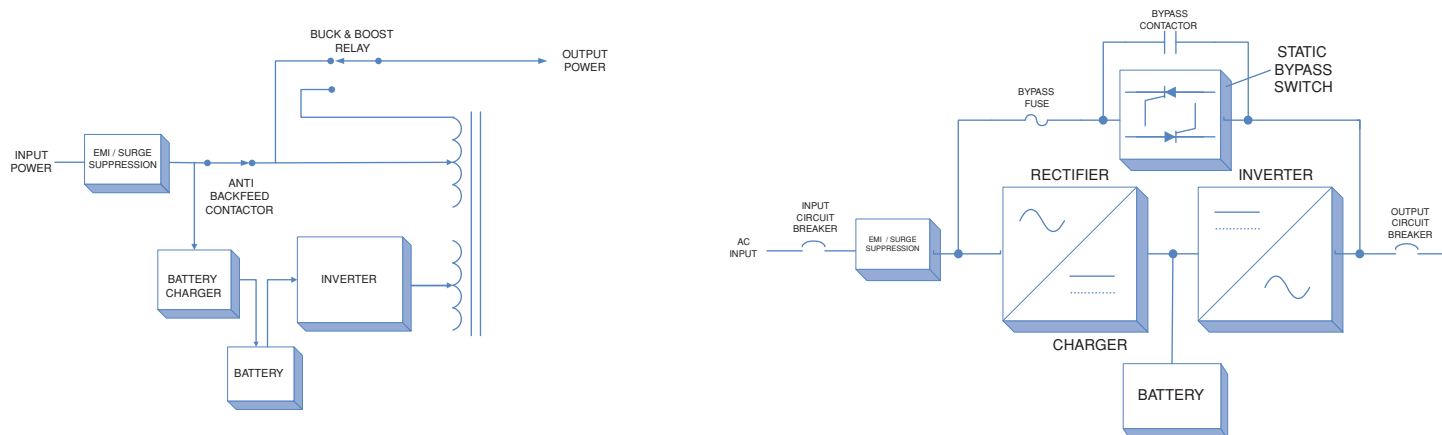|	
Operating Temperature:	0 to 40°C
Storage Temperature:	-20 to 50°C
Altitude:	3500m above sea level
Humidity:	0 to 95%, non-condensing
Audible Noise:	<40dBA at 1m
Safety:	UL, CSA
EMC (EMS/EMI):	IEC 61000-4. FCC Part 15, CISPR22
High Efficiency Mode:	>95% efficient when selected

Extended Battery Pack Specifications for Pinnacle Plus Tower

Battery Pack:	PINBP700T	PINBP1000/1500T	PINBP1000/1500T	PINBP2/3000T	PINBP2/3000T	PINBP6000T	PINBP10000/
Alpha Part Number:	033-751-07	033-751-10	033-751-10	033-751-20	033-751-20	033-751-400	017-751-311
Dimensions (in):	8.9W x 16.7D x 14.2H	8.9W x 16.7D x 14.2H	8.9W x 16.7D x 14.2H	8.9W x 16.7D x 14.2H	8.9W x 16.7D x 14.2H	TBA	TBA
(mm):	226W x 424D x 360H	226W x 424D x 360H	226W x 424D x 360H	226W x 424D x 360H	226W x 424D x 360H	TBA	TBA
Weight (lb/kg):	70.5/32	92.6/42	92.6/42	92.6/42	92.6/42	TBA	TBA
Approx. Ship Weight (lb/kg):	76.1/34.5	98.1/44.5	98.1/44.5	98.1/44.5	98.1/44.5	TBA	TBA

Extended Battery Pack Specifications for Pinnacle Plus Rack Mount

Battery Pack:	PINBP700RM	PINBP1000/1500RM	PINBP1000/1500RM	PINBP2/3000RM	PINBP2/3000RM
Alpha Part Number:	033-751-08	033-751-12	033-751-12	033-751-22	033-751-22
Dimensions (in):	16.9W x 25D x 3.3H	16.9 x 25 x 3.3H	16.9 x 25 x 3.3H	16.9 x 25 x 3.3H	16.9 x 25 x 3.3H
(mm):	429.3W x 635D x 83.8H	429.3W x 635D x 83.8H	429.3W x 635D x 83.8H	429.3W x 635D x 83.8H	429.3W x 635D x 83.8H
Weight (lb/kg):	73.9/33.5	95.9/43.5	95.9/43.5	95.9/43.5	95.9/43.5
Approx. Ship Weight	79.4/36	101.4/46	101.4/46	101.4/46	101.4/46

Double Conversion "Online" vs. Line-Interactive Technology

A Double Conversion UPS is the most popular for high-end equipment installations due to its high quality and reliability.

Alpha Pinnacle Plus

Pinnacle Plus Advantages

Advanced Digital Signal Processing Technology (DSP)

Capable of monitoring all conditions of the UPS in real time and creating a pure sine wave output with 1% regulation.

Designed for Continuous Battery Operation

Highly effective power module – Insulated gate bipolar transistor (IGBT) with greater current rating, durability and zero transfer time to prevent any load interruption.

User Friendly Smart LCD Display

All models have an interface to clearly indicate UPS status such as normal operations of batteries, bypass, fault, recharge, load, load size and capacity.

Unique Battery Management

Allows for the addition of battery packs to prepare for extreme power outages.

Automatic Frequency Synchronization

UPS can be selected for 1 or 3Hz to operate on back-up generator power while the power supply stabilizes the frequency without any interruptions to the load.

Internal Static Bypass

Under special circumstances such as overload, protection or crash, the UPS will automatically switch to main power using an internal bypass circuit.

Self-Diagnostic Function

Once the UPS is powered on, the unit automatically monitors for fault conditions, protects itself and the load from any of the these conditions and displays a comprehensive error code.

All Pinnacle Models Include AlphaMON Shut Down Software

Software includes UPS utility monitoring, scheduled system shutdown with file saving capability, warning notification via e-mail and pager, and user-definable warnings.

Optional Internal SNMP/Web Agent

SNMP/Web Agent has a system administrator notification, java applets, automatic shutdown, multi-server shutdown, enhanced HTTP security, and a new Graphical User Interface (GUI) for the systems 's home page and applets.

User Accessible Hot Swappable Batteries

The Pinnacle Plus series is designed with an easily accessible hot swappable battery that eliminates sparks and ensures user safety.

For more information visit: **www.alpha.com**