

Power

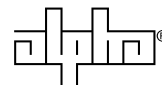
Pinnacle Plus Series

Online, Double Conversion UPS



- Models available from 700VA to 12kVA
- True online, double conversion operation with zero transfer time
- Ideal for mission-critical applications: servers, voice and data networks
- Fail safe bypass in event of UPS failure
- Power factor correction
- SNMP internal slot for web agent or UPS expander card

Alpha's Pinnacle Plus UPS Series provide safe, clean, reliable power protection to networking equipment, telecommunication systems and other mission-critical applications. The Pinnacle Plus's advanced fully digitized microprocessor controlled technology can quickly react to varying output conditions and continually offer pure sine wave power to critical 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 the UPS lighter in weight, easier to control, and more reliable due to the reduction of internal components.

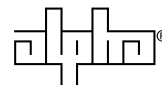


Pinnacle Plus UPS

Nominal Specifications

Model Tower: Part Number: Rack Mount 2U: Part Number:	PIN 700TXL 017-751-05 PIN 700RMXL 017-751-072	PIN 1000TXL 017-751-10 PIN 1000RMXL 017-751-122	PIN 1500TXL 017-751-15 PIN 1500RMXL 017-751-17	PIN 2000TXL 017-751-20 PIN 2000RMXL 017-751-22	PIN 3000TXL 017-751-30 PIN 3000RMXL 071-751-32
Capacity (VA/W): Input Plug: Input Protection:	700VA/490W NEMA 5-15P Circuit Breaker	1000VA/700W NEMA 5-15P Circuit Breaker	1500VA/1050W NEMA 5-15P Circuit Breaker	2000VA/1400W NEMA L5-20P Circuit Breaker	3000VA/2100W NEMA L5-30P Circuit Breaker
Receptacles Tower:	6 NEMA 5-15R	6 NEMA 5-15R	6 NEMA 5-15R	10 NEMA 5-20R, 1NEMA L5-20R	10 NEMA 5-15R 1 NEMA L5-30R
Rack Mount:	6 NEMA 5-15R	6 NEMA 5-15R	6 NEMA 5-15R	2 NEMA 5-20R, 1 NEMA L5-20R	2 NEMA 5-15R, 1 NEMA L5-30R
Battery DC Voltage:	24V	36V	36V	72V	72V
Mechanical Tower					
Dimensions (in): (mm):	6W x 16.5D x 9.4H 152.4W x 419.1D x 238.8H	6W x 16.5D x 9.4H 152.4W x 419.1D x 238.8H	6W x 16.5D x 9.4H 152.4W x 419.1D x 238.8H	8.9W x 16.7D x 14.2H 226.1W x 424.2D x 360.7H	8.9W x 16.7D x 14.2H 226.1W x 424.2D x 360.7H
Net Weight (lb/kg): Approx. Ship Weight (lb/kg):	28.7/13 34.1/15.5	35.3/16 40/18.2	37.5/17 41.8/19	68.3/31 73.9/33.6	72.8/33 78.1/35.5
Rack Mount					
Dimensions (in): (mm):	16.9W x 16.7D x 3.3H 429.3W x 424.2D x 83.8H	16.9W x 16.7D x 3.3H 429.3W x 424.2D x 83.8H	16.9W x 16.7D x 3.3H 429.3W x 424.2D x 83.8H	16.9W x 25D x 3.3H 429.3W x 609.6D x 83.8H	16.9W x 25D x 3.3H 429.3W x 609.6D x 83.8H
Net Weight (lb/kg): Approx. Ship Weight (lb/kg):	33.1/15 36.1/16.4	37.5/17 42.5/19.3	39.7/18 44.2/20.1	70.6/32 74.4/33.8	72.8/33 78.5/35.7
Battery Runtimes Tower at 50% Load					
UPS:	18min	18min	14min	18min	14min
1 EBP:	138min	148min	92min	80min	50min
2 EBP:	270min	310min	205min	150min	93min
Tower at 100% Load					
UPS:	6min	6min	5min	6min	5min
1 EBP:	64min	69min	38min	33min	19min
2 EBP:	115min	150min	80min	69min	40min
Rack at 50% Load					
UPS:	29min	56min	25min	25min	25min
1 EBP:	138min	148min	80min	102min	50min
2 EBP:	270min	310min	150min	189min	93min
Rack at 100% Load					
UPS:	10min	23min	10min	10min	9min
1 EBP:	64min	69min	33min	40min	19min
2 EBP:	115min	150min	69min	86min	40min

Model Tower: Part Number:	PIN 6000TXL 017-751-400	PIN 10000TXL 017-757-300	PIN 12000TXL 017-751-15
Capacity (VA/W): Input Plug: Input Protection:	6000VA/4200W Terminal Block Circuit Breaker	10000VA/7000W Terminal Block Circuit Breaker	12000VA/8400W Terminal Block Circuit Breaker
Receptacles Tower:	Terminal Block	Terminal Block	Terminal Block
Battery DC Voltage:	240V	240V	240V
Mechanical Tower			
Dimensions (in): (mm):	10.1W x 23.2D x 22.4H 257W x 590D x 570H	10.1W x 27.2D x 28.2H 257W x 690D x 715H	13.5W x 27.2D x 34.6H 342W x 690D x 878H
Net Weight (lb/kg): Approx. Ship Weight (lb/kg):	Consult Factory Consult Factory	Consult Factory Consult Factory	Consult Factory Consult Factory
Battery Runtimes Tower at 50% Load			
UPS:	19min	37min	53min
Tower at 100% Load			
UPS:	6min	13min	19min



Pinnacle Plus UPS

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 \pm 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 \pm 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 Runtimes for Pinnacle Plus Tower

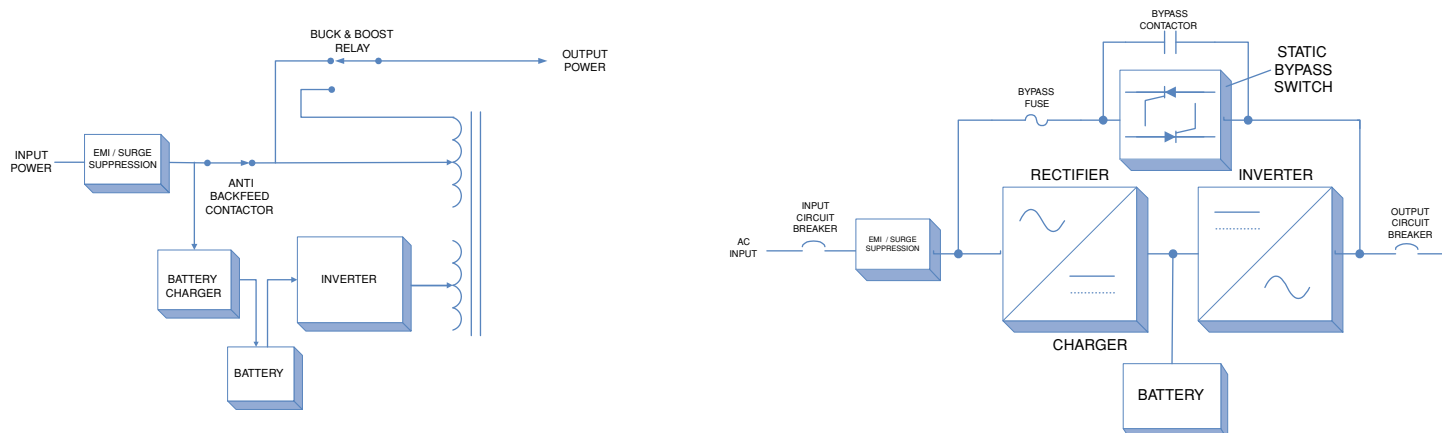
Battery Pack:	PINBP700T	PINBP1000/1500T	PINBP1000/1500T	PINBP2/3000T	PINBP2/3000T	PINBP6000T	PINBP10000/12000T
Alpha Part Number:	033-751-07	033-751-10	033-751-10	033-751-20	033-751-20	033-751-400	017-751-311
Dimensions (in):	8.9W x 16.7D x 14.2H	8.9W x 16.7D x 14.2H	8.9W x 16.7D x 14.2H	8.9W x 16.7D 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

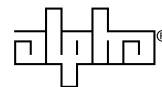
Extended Battery Pack Runtimes for Pinnacle Plus Rack Mount

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 (lb/kg):	79.4/36	101.4/46	101.4/46	101.4/46	101.4/46

Double Conversion “Online” vs. Line-Interactive Technology

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





Pinnacle Plus Series

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 – 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 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 while protecting 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 GUI for the home page and applets.

User Accessible Hot Swappable Batteries

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



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