

Power

Novus UPS

Outdoor Uninterruptible Power Supplies

1000VA - 1800VA

- Applications: wireless, traffic control, access control, airport security.
- Clean, reliable uninterrupted power for outdoor mission critical equipment.
- Simple, flexible installation options for rack, wall or shelf configurations.
- Intelligent buck and boost operation provides stable output during unstable voltage conditions.
- Alpha's proven reliability with more than a million power installations worldwide.
- Wide temperature range -40°C to +74°C.
- Retrofit outdoor enclosures also available.



Alpha's Novus Uninterruptible Power Supply is designed to provide critical AC backup power for traffic, cellular, and other outdoor industrial applications during utility outages. The Novus UPS will protect your critical equipment from spikes and surges during all modes of operation. The Novus UPS has 100% front-access connections and test points for easy monitoring and maintenance. Temperature-compensated charging maximizes battery life in the harsh, outside plant environment. For longer runtimes, the Novus UPS is fully compatible with Alpha's AlphaGen™ DC generators.

Novus

Uninterruptible Power Supplies



Novus 1800



Novus 1000

Standard Features

- Buck and boost operation for Highline/Brownout protection
- Hot-swappable batteries
- Noise suppression, FCC Class A
- Multiple mounting configurations
- Rugged, outdoor weather resistant construction
- NRTL / CSA approved

Communications

DB-9 compatible connector / RS-232 interface capable of monitoring, controlling, and calibrating the UPS, using ASCII commands with terminal emulation software.

Alarms

External Alarm Signal Relays are rated for 120VAC to provide the options of signaling using various voltage sources. External Alarm Signal with relay contacts for a) line fail, b) low battery warning, c) UPS needs service.

Highline/Brownout Protection

Buck and boost mode increases/decreases voltage by 12% of nominal line voltage if input voltage falls above or below 12% of nominal.

Automatic Transfer Switch (ATS)

When the combined critical and non-critical loads exceed the power capacity of the UPS, the optional ATS allows for "load shedding" so that the UPS can continue to supply power to the critical load.



ATS

Power Modules

Novus power modules are available in two power ratings – 1000VA and 1800VA. Power module selection should be based on needed output power rating and backup time requirement.

Power Module	1000VA	1800VA
Input Voltage Nominal	120VAC	120VAC
Output Voltage Nominal	120VAC	120VAC
Input Frequency Nominal	60Hz	60Hz
Output Frequency Nominal	60Hz	60Hz
Input Current	15A	20A
Input Voltage Variation	92-135VAC	92-135VAC
Output Power	1200VA	1800VA*
Active Output Power	875W 700W*	1600W* 1400W**
Typical Efficiency	>95%	>95%
Max Charge Current	6 Amps	6 Amps
Battery Backup Time***	2-8 Hrs	2-8 Hrs

General Specifications

Output:

Output Voltage Regulation	±5%
Waveform	sine
Typical Efficiency	>95%
Typical Output Voltage THD	<5%
Typical Transfer Time	2 ms typical
Audible Noise at 1m	<55dbA

Environment:

Operating Temperature	-40°C to +50°C -40°C to +74°C*
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Agency Compliance:

Lightning / Surge Protection:	Passes ANSI/IEEE C.62.41/C.62.45 Cat A&B
Safety:	UL / CSA EN50091-1
Low Voltage:	EN50091-2

Mechanical Specifications

Power Module	1200VA	1800VA
Width (mm / in)	430 / 17	430 / 17
Height (mm / in)	130 / 5.25	177 / 7
Depth (mm / in)	254 / 10	254 / 10
Weight (kg / lbs)	18 / 40	27 / 60

Note:

- * Output power is de-rated above 50°C.
- ** Output power is limited to 1440 VA without the use of an ATS. An ATS must be used to get full rated output power.
- *** Battery/Backup time is dependent upon load and battery pack selected.

Please contact your Alpha sales representative for more information.