

Power

Novus UPS Series

Power Module



Novus 1800

- 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—+74°C

Alpha's Novus Series power modules are designed to provide critical AC backup power for traffic, cellular, and other outdoor applications during utility outages. The Novus will protect your critical equipment from spikes and surges during all modes of operation. The Novus 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 is fully compatible with Alpha's AlphaGen™ DC generators.



Novus Power Modules

Novus power modules are available in power ratings—300–2200VA.

Power module selection should be based on needed output power rating and backup time requirement.

Nominal Specifications

Power Module	300VA	1000VA*	1250VA	1800VA*	2000VA	2200VA
Input Voltage Nominal:	120VAC	120VAC	120/230VAC	120VAC	208/230/240VAC	208/230/240VAC
Output Voltage Nominal:	120VAC	120VAC	120/230VAC	120VAC	208/230/240VAC	208/230/240VAC
Input Frequency Nominal:	60Hz	60Hz	50Hz/60Hz	60Hz	50Hz/60Hz	50Hz/60Hz
Output Frequency Nominal:	60Hz	60Hz	50Hz/60Hz	60Hz	50Hz/60Hz	50Hz/60Hz
Input Current:	15A	15A	20A	20A	15A	15A
Input Voltage Variation:	92–135VAC	92–135VAC	92–135VAC	92–135VAC	176–276VAC	176–276VAC
Output Power:	300VA	1200VA	1250VA	2000VA*	2000VA	2200VA
Active Output Power:	300W	875W	875W	1600W*	1600W	2200W
	300W	700W*	700W*	1440W**		
Typical Efficiency:	>95%	>95%	>95%	>95%	>95%	>95%
Max Charge Current:	6A	6A	6A	10A	10A	10A
Battery Backup Time***:	2–8Hrs	2–8Hrs	2–8Hrs	2–8Hrs	2–16Hrs	2–16Hrs
Mechanical						
Width (in/mm):	17/430	17/430	17/430	17/430	17/430	17/430
Height (in/mm):	5.25/130	5.25/130	5.25/130	7/177	7/177	7/177
Depth (in/mm):	10/254	10/254	10/254	10/254	10/254	10/254
Weight (lb/kg):	40/18	40/18	40/18	60/27	60/27	60/27

Note:

1000 and 1800VA units meet -40–74°C temperature range.

* Output power is de-rated above 50°C.

** Output power is limited to 1440VA 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.

General Specifications

Output

Output Voltage Regulation:	5%
Waveform:	Pure sine wave
Typical Efficiency:	>95%
Typical Output Voltage THD:	>5%
Typical Transfer Time:	2ms typical
Audible Noise at 1m:	55dba

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

Environment

Operating Temperature:	-40–+50°C
	-40–+50°C

Communications

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

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
Warranty:	24 months

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



Novus 300



Novus 1000



Novus 1250



Novus 2000

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