

Power

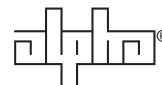
Nexsys Series

Uninterruptible Power Supply



- Flexible UPS solution designed for equipment requiring conditioned, uninterrupted power
- Three configurations: Rack, Tower and Wall Mount
- High efficiency power conditioning with the longest internal runtime available
- Additional runtime added via external battery packs up to 12Hrs
- 24 month limited warranty

The Nexsys UPS Series is available in 750VA rating. All models are designed to be installed in any one of the three configurations: rack-mount, wall-mount or tower. The line interactive power modules provides high efficiency power conditioning and the longest internal runtime available on the market today. External battery packs may be cascaded together for extended runtime. All batteries are hot-swappable and regulated by the Alpha "Smart Charger", that ensures internal batteries are consistently at peak performance level and automatically selects a higher charge current when an external battery pack is connected. The Nexsys 750i uses a galvanic isolation transformer that provides complete input-to-output isolation.



Nexsys AWM 750 and 750i UPS

The Nexsys 750 and 750i multi-mounted UPS systems are more compact and have a higher power capacity than previous models. Front access for quick and easy battery maintenance. The Nexsys 750i uses a galvanic isolation transformer which isolates the output of the UPS from the input through electromagnetic induction.

Runtime Chart

Total the power requirement for all equipment to be connected to the UPS. Refer to the chart below for UPS and battery pack (WBP 407-48) at desired runtimes. For special application information, please contact your Alpha sales representative.

Load Name Plate Ratings Amps/VA/Watts*	30min	1Hr	2Hrs	3Hrs
2/240/170†	Nexsys	Nexsys	Nexsys +1 WBP	Nexsys +1 WBP
3/360/250†	Nexsys	Nexsys +1 WBP	Nexsys +1 WBP	Nexsys +2 WBP
4/480/340†	Nexsys	Nexsys +1 WBP	Nexsys +1 WBP	Nexsys +3 WBP
5/600/420†	Nexsys	Nexsys +1 WBP	Nexsys +1 WBP	Nexsys +3 WBP
6/720/500†	Nexsys	Nexsys +1 WBP	Nexsys +1 WBP	Nexsys +4 WBP

Note: Actual runtimes may vary according to the type of load, age of batteries, temperature and other factors. Backup times are based on typical switch activity of 75% capacity.

* Actual observed load operating characteristics (Amps, VA or Watts) are typically 75% of name plate rating.

† Maximum output power is limited by maximum Amps, VA or Watts, whichever limit is reached first.

General Specifications

Input Power	750	750i Isolated Output
Output Apparent Power (VA):	750	750
Output Active Power (W):	525	525
Input Frequency (Hz):	60	60.5%
Generator Compatibility:	Inverter synchronization	Inverter synchronization
Input Voltage Range (VAC):	92–135	92–135
Transfer Time (msec):	2–4 typical	2–4 typical
Inrush Current:	Load dependent	Load dependent
Brownout Protection:	See Note*	See Note*

*Note:
If input voltage falls below 83% of nominal, boost mode steps up output voltage to 112% of input voltage. Input voltage below 77% of nominal is considered as unqualified line.

Output Power	750	750i Isolated Output
Output Voltage (VAC):	120	120
Regulation:	5%	5%
AC Output Current: (120/230V @ full R load)	6.25A/3.2A max	6.25A max
Output Waveform:	Pure sine wave	Pure sine wave
Output Waveform THD: (Linear load)	5%	5%
Load Crest Ratio:	3:1	3:1
Efficiency Line Mode:	>95%	>95%
Efficiency Inverter Mode: (full resistive load)	>80%	>80%
AC Input Connection		
120V:	5-15P Hardwired Line Cord	5-15P Hardwired Line Cord
230V:	IEC60320 Inlet	
AC Output Connection		
120V:	2 X Dx5-15R sockets	2 X Dx5-15R sockets
230V:	3 X IEC60320, reversed	

Communications

RS-232 Interface:	Capable of monitoring, controlling and calibrating the UPS, using ASCII commands with terminal emulation software.
Connector for RS-232:	DB-9 Female

Certification and Approvals

Safety:	UL-1778, CSA-107.1, CSA22.2 #950 EN60950/CE (EN50091-2)
EMI:	FCC Class A VDE 0871 Class A
Packaging:	Meets ISTA program
Warranty:	24 months

Battery Characteristics

Battery Type:	Sealed, maintenance-free, valve-regulated
Battery String Voltage:	48VDC
Battery Replacement:	Hot swappable
Battery Charger:	Temperature-compensated switch mode charger -4mV/C/Cell) microprocessor
Recharge Time:	4Hrs to 90%
Overload Capability:	110% for 3min
Step Load Response:	Full recovery in 1/2 cycle (full resistive load)
Over-Current Protection	
Input: 120V:	15A Fuse
230V:	8A Fuse
Battery:	Fused, 30A x 2
Noise Attenuation (dBA)	
Line Mode:	40
Inverter Mode:	60

Mechanical Specifications

Dimensions (in/mm):	17 H x 12 W x 5.2 D
Weight (incl. batteries):	(432 x 305 x 132)
WBP 407-48 Dimensions (in/mm):	15 H x 8.44 W x 2.84 D (383 x 214 x 72)
WBP 407-48 Weight:	25lbs/11.4kg
Mounting:	Wall mount–Standard Rackmount–Optional
Cooling:	Fan
Unit On/Off switch location:	Top of left side panel
Audible Noise Level (dBA):	<40
Operating Temperature (°C):	0–+40°
Altitude:	10,000ft (3048m)
Storage Temperature (°C):	-10–+50
Humidity (non-condensing):	95%



AWM 750

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