

1KVA-2KVA-3KVA



6KVA-10KVA

NUPS22 Series

Niveo Professional True Sine Wave Double-Conversion Online Rack/Tower UPS

NUPS22-1000U- 1.0KVA/900W
NUPS22-2000U-2.0KVA/1800W
NUPS22-3000U- 1.0KVA/2700W
NUPS22-6000U - 6.0KVA/5400W
NUPS22-10000U – 10KVA/9000W

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Product Specification

Introduction

Ranging from 1KVA to 10KVA, NUPS22 provides server-grade full power protection from power failure, spikes and surge in small footprint with enhanced output power factor 0.9. Combining flexible rack/tower form factor and easy-shift LCD panel design, this series is perfect for networking, telecom, server and mission-critical applications.

Features

- True Sine Wave double-conversion online
- Output power factor 0.9
- User-friendly and easy-shift LCD design
- Rack/Tower design
- ECO and advanced ECO mode for energy saving
- Output voltage regulation < 1%
- Higher output crest radio 5:1
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot-swappable battery design(1KVA, 2 KVA and 3 KVA only)
- Multiple communication available
- DSP technology (6KVA and 10 KVA only)
- Active input power factor correction 0.99(6KVA and 10KVA only)
- N+X parallel redundancy (6KVA and 10KVA only)

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Specifications 1KVA-3 KVA

MODEL		1K	2K	3K
CAPACITY	VA/W	1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W
INPUT				
Voltage Range	Low Line Transfer	80 VAC/70 VAC/60 VAC/55 VAC ± 5 % or 160 VAC/140 VAC/120 VAC/110 VAC ± 5 % (based on load percentage 100%-80% / 80%-70% / 70%-60% / 60%-0)		
	Low Line Comeback	85 VAC/75 VAC/65 VAC/60 VAC ± 5 % or 170 VAC / 150 VAC / 130 VAC / 120 VAC ± 5 %		
	High Line Transfer	150 VAC ± 5 % or 300 VAC ± 5 %		
	High Line Comeback	140 VAC ± 5 % or 290 VAC ± 5 %		
Frequency Range		40Hz ~ 70Hz		
Power Factor		≧0.99 @normal voltage		
OUTPUT				
Output Voltage		100*/110*/115*/120/127 VAC or 200/208/220/230/240 VAC		
AC Voltage Regulation		± 1%		
Frequency Range		47 ~ 53 Hz or 57 ~ 63 Hz (Synchronized Range)		
Frequency Range		50Hz ± 0.5% or 60Hz ± 0.5% (Bat. Mode)		
Current Crest Ratio (CF)		5:1 (max.)		
Harmonic Distortion (THDU)		≦ 2% THD (Linear load) ≦ 4% THD (Non-linear load)		
Transfer Time	AC to DC	Zero		
	Inverter to Bypass	4 ms (Typical)		
Waveform (Batt. Mode)		Pure Sinewave		
EFFICIENCY				
AC Mode		90%	91%	91%
Battery Mode		88%	89%	90%
ECO Mode		97%	97%	97%
BATTERY				
Battery Type		2 x 12V/9Ah	4 x 12V/9Ah	6 x 12V/9Ah
Typical Recharge Time		4 hours recover to 90% capacity (for standard model only)		
Charging Current (max.)		1,5A*	1,0A	1,0A
Charging Voltage		27.4 VDC ± 1%	54,8 VDC ± 1%	82,1 VDC ± 1%
INDICATORS				
LCD		UPS status, Load level, Battery level, Input/Output/battery info, Discharge time and Fault indicators		
ALARM				
Battery Mode		Sounding every 5 seconds		
Low Battery		Sounding every 2second2		
Overload		Sounding twice every second		
Fault		Continuously sounding		
PHYSICAL				
Dimension, DxWxH (mm)		410 x 438 x 88	510 x 438 x 88	630 x 438 x 88
Net Weight (kgs)		11.6	14.5	27.4
ENVIRONMENT				
Humidity		20-90 % RH @ 0- 40°C (non-condensing)		
Noise Level		Less than 50dBA @ 1 Meter		
MANAGEMENT				
Smart RS-232/USB		Supports Windows 2000/2003/XP/Vista/2008/7/8,10 Linux, Unix, and MAC		
Optional SNMP		Power management from SNMP manager and web browser		

*Derate capacity to 95% when the output voltage is adjusted to 115VAC. Derate capacity to 90% when the output voltage is adjusted to 110VAC and derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC.

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Specifications 6KVA-10KVA

MODEL		NUPS 22-6000U	NUPS22-ISO 6000U	NUPS22-10000U	NUPS22- Iso 10000U
PHASE		Single phase with ground			
CAPACITY		6000 VA / 5400 W		10000 VA / 9000 W	
INPUT					
Nominal Voltage		200/208/220/230/240 VAC			
Voltage Range		110 - 300 VAC at 50% load 176 -300 VAC at 100% load			
Frequency Range		46~54 Hz or 56~64 Hz			
Power Factor		≧ 0.99 @ 100% load			
OUTPUT					
Nominal Voltage		200/208/220/230/240 VAC	104 VAC x 2 / 208 VAC or 110 VAC x 2 / 220 VAC or 115 VAC x 2 / 230 VAC or 120 VAC x 2 / 240 VAC	200/208/220/230/240 VAC	104 VAC x 2 / 208 VAC or 110 VAC x 2 / 220 VAC or 115 VAC x 2 / 230 VAC or 120 VAC x 2 / 240 VAC
AC Voltage Regulation		± 1%	± 3%	± 1%	± 3%
Frequency Range (Synchronized Range)		46~54 Hz or 56~64 Hz			
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio		3:1 (max.)			
Harmonic Distortion		≦ 2 % THD (Linear Load) ≦ 4 % THD (Non-linear Load)	≦ 3.5 % THD (Linear Load) ≦ 7 % THD (Non-linear Load)	≦ 2 % THD (Linear Load) ≦ 4 % THD (Non-linear Load)	≦ 3.5 % THD (Linear Load) ≦ 7 % THD (Non-linear Load)
Transfer Time	Line mode to Battery mode	Zero			
	Battery mode to Line mode	Zero			
	Inverter to Bypass	Zero			
	Bypass to Inverter	Zero			
Waveform (Batt. Mode)		Pure Sinewave			
EFFICIENCY					
AC Mode		91%	85%	91%	85%
ECO Mode		96%	87%	96%	87%
Battery Mode		88%	82%	88%	82%
BATTERY					
Standard Model	Nominal Voltage	240 VDC			
	Battery Type	12 V / 7 AH		12 V / 9 AH	
	Numbers	20 (18-20 pcs adjustable)*		20 (18-20 pcs adjustable)*	
	Typical Recharge Time	7 hours recover to 90% capacity		9 hours recover to 90% capacity	
	Charging Current (max.)	1A		1A	
	Float Charging Voltage	273 VDC (based on battery numbers at 20 pcs)			
Long Run Model	Battery Type and Numbers	Depending on applications			
	Charging Current (max.)	4A		4A	
	Float Charging Voltage	273 VDC (based on battery numbers at 20 pcs)			
INDICATORS					
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
ALARM					
Battery Mode		Sounding every 4 seconds			
Low Battery		Sounding every second			
Overload		Sounding twice every second			
Fault		Continuously sounding			
PHYSICAL					
Standard Model	Dimension, D X W X H (mm)	UPS unit: 580 x 438 x 133 Battery pack: 580X438 X133	UPS unit: 580 x 438 x 133 Battery pack: 580 x 438 x 133 ISO bank: 580 x 438 x 133	UPS unit: 668 x 438 x 133 Battery pack: 580X438 X133	UPS unit: 668 x 438 x 133 Battery pack: 580 x 438 x 133 ISO bank: 668 x 438 x 133
	Net Weight (kgs)	UPS unit: 20 Battery pack: 57	UPS unit: 20 Battery pack: 57 ISO bank: 67	UPS unit: 23.5 Battery pack: 63	UPS unit: 23.5 Battery pack: 63 ISO bank: 90
Long Run Model	Dimension, D X W X H (mm)	580 x 438 x 133	UPS unit: 580 x 438 x 133 ISO bank: 580 x 438 x 133	668 x 438 x 133	UPS unit: 668 x 438 x 133 ISO bank: 668 x 438 x 133
	Net Weight (kgs)	20	UPS unit: 20 ISO bank: 67	23,5	UPS unit: 23.5 ISO bank: 90
ENVIRONMENT					
Operation Humidity		0-95 % RH @ 0- 40°C (non-condensing)			
Noise Level		Less than 58dBA @ 1 Meter		Less than 60dBA @ 1 Meter	
MANAGEMENT					
Smart RS-232/USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC			
Optional SNMP		Power management from SNMP manager and web browser			

*When using internal batteries from 18-19, the unit will de-rate according to below formula: P=Prating x N/20

**If the UPS is installed or used in a place where altitude is above than 1000m, the output power must be derated one percent per 100m.

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NUPS22-SNMP

SNMP card for NUPS22-series



Main Features

- Allows control and monitoring of multiple UPSs through RJ-45 network connection
- Real-time dynamic graphs of UPS data (voltage, frequency, load level, battery level)
- Warning notifications via audible alarm, broadcast, mobile messenger, e-mail and SNMP traps
- Historic data log stored in centralized PC database
- Simple firmware upgrade with one click
- Password security protection and remote access management
- Supports optional environmental monitoring detector for temperature, humidity and smoke

Specifications

Protocol Support	SNMP-V1, SNMP-V2
UPS Slot Type	Golden Finger
Network Support	RJ45 10/100BaseT
Supported MIB	RFC1213, RFC1628, MIB
Supported OS	Windows family, Liunx, MAC, and Solaris
Supported Extension Devices	Optional environmental monitoring detector
Power Input	12V
Power Consumption	2 watt (max.)
Operating Temperature	0 ~ 40°C
Operating Humidity	0% ~ 95%
Dimension, D x W x H	0.9 x 1.85 x 0.6 inch
Net Weight	0.08lbs

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NUPS22-ENVc

Environmental Monitoring Device for NUPS22-series



Main Features

- Plug & use for simple installation with SNMP manager
- Monitor temperature and humidity to protect your precious equipment
- Allow 2 contact closure signals for user-defined usage
- Management software to remote monitor temperature and humidity status via web brows
- Measure temperatures between 0 to 100°C with an accuracy of ±1.5°C
- Measure relative humidity between 10 to 90% RH with an accuracy of ±3%

Specifications

Nominal DC input	12VDC
DC input current	0.5 A min.
Temperature measurement range	0 ~ 100°C
Temperature measurement accuracy	±1.5°C
Humidity measurement range	10% ~ 90% RH
Humidity measurement accuracy	±3%
Smok Alarm	N/A
Communication	RS232 with ASCII protocol
Acceptable cable length	15 m
Dimension (DxWxH) mm	116 x 90 x 27
Net weight	200g

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