



1KVA-3KVA



6KVA-10KVA



## NUPS22 Series

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

NUPS22-6000U - 6.0KVA/5400W

NUPS22-10000U - 9KVA/9000W

**More information:**

**[WWW.NIVEOPROFESSIONAL.COM](http://WWW.NIVEOPROFESSIONAL.COM)**

**[INFO@NIVEOPROFESSIONAL.COM](mailto:INFO@NIVEOPROFESSIONAL.COM)**



# 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 ratio 5:1
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot-swappable battery design( 1KVA 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)
-

## Specifications 1KVA-3 KVA

MODEL	NUP 322-1000 U		NUP 322-3000 U	
Capacity	VA	1000 VA	3000 VA	
	W	900 W	2700 W	
<b>INPUT</b>				
Nominal Voltage	100~110~115~120 VAC			
Input Voltage Range	110-120 VAC			
Voltage Range	85-150 VAC $\pm$ 5%			
Frequency Range	40Hz ~ 70 Hz			
Phase	Single phase with ground			
Power Factor	$\geq$ 0.99 @ nominal voltage (100% load)			
<b>OUTPUT</b>				
Output Voltage	100~110~115~120 VAC			
AC Voltage Regulation (Bat. Mode)	$\pm$ 1%			
Frequency Range (Synchronized Range)	47 ~ 63 Hz or 57 ~ 63 Hz			
Frequency Range (Bat. Mode)	50 Hz $\pm$ 0.5% or 60Hz $\pm$ 0.5%			
Current Crest Ratio	5:1 (max.)			
Harmonic Distortion	$\leq$ 2 % THD (Linear Load); $\leq$ 4 % THD (Nonlinear load)			
Transfer Time	Line mode to Battery mode	Zero		
	Inverter to Bypass	4 ms (Typical)		
Waveform (Bat. Mode)	Pure Sine wave			
<b>EFFICIENCY</b>				
AC Mode		87%		89%
Battery Mode		85%		87%
ECO Mode		94%		97%
<b>BATTERY</b>				
Battery Type		12 V / 8AH		12V / 8AH
Numbers		2		6
Typical Recharge Time		4 hours recover to 90% capacity		4 hours recover to 90% capacity
Charging Current (max.)		1.0 A		1.0 A
Charging Voltage		27.4 Vdc $\pm$ 1%		82.1 Vdc $\pm$ 1%
<b>INDICATORS</b>				
LED Display	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator			
<b>ALARM</b>				
Battery Mode	Sounding every 4 seconds			
Low Battery	Sounding every second			
Overload	Sounding twice every second			
Fault	Continuously sounding			
<b>PHYSICAL</b>				
Dimension, D X W X H (mm)		380 x 438 x 88		800 x 438 x 88
Net Weight (kgs)		13.2		29.6
<b>ENVIRONMENT</b>				
Humidity	20-90 % RH $\oplus$ 0-40°C (non-condensing)			
Noise Level	Less than 50dBA $\oplus$ 1 Meter			
<b>MANAGEMENT</b>				
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/6, Linux, Unix, and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

\*\*De-rate capacity to 95% when the output voltage is adjusted to 115VAC, de-rate capacity to 90% when the output voltage is adjusted to 110VAC and de-rate capacity to 80% when the output voltage is adjusted to 100VAC.

\*\*\* Product specifications are subject to change without further notice

## 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.					