



NATILUOS

Unlimited Energy



PRODUCTS CATALOG

COMPLETE POWER SOLUTIONS

NU333



Relay card



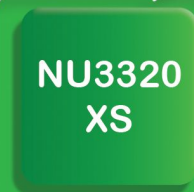
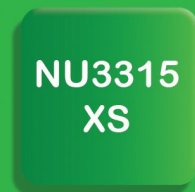
SNMP



SNMP



Parallel cable



NU33 XS SERIES

XS SERIES 10KVA~40KVA
3:3 Phase PF 1.0

FEATURES

- High power density design.
- N+X parallel redundancy, support maximum 4 units in parallel.
- Online double conversion with DSP control.
- Input current harmonic: <3%.
- Wide input voltage range: 208~478Vac.
- Wide input frequency range 40~70Hz.
- Optimization battery group, the quantity of battery 10~30kVA: 16/18/20pcs (30~50pcs is optional) 40kVA: 30~50pcs.
- Maximum charging current up to 20A (Settable).
- Dual input source (optional for standard unit).
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional.
- Versatile LCD human-computer interface.
- Generator compatible.
- ECO mode operation for energy saving.
- Intelligent fan speed regulation.
- Self-testing when UPS startup.
- 50/60Hz frequency converter mode.
- The output can meet 100% unbalanced load.
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm.
- Multiple communication interface: USB, RS232, RS485, Parallel port, Dry contact, Intelligent slot, SNMP card (Optional), Relay card (Optional), Battery temperature sensor (Optional)



SPECIFICATIONS

Model		NU3310XS	NU3315XS	NU3320XS	NU3330XS	NU3340XS	
Capacity (VA/Watts)		10kVA/9kW 10kVA/10kW	15kVA/13.5kW 15kVA/15kW	20kVA/18kW 20kVA/20kW	30kVA/27kW 30kVA/30kW	40kVA/36kW 40kVA/40kW	
INPUT							
Input	Rectifier input	Rated AC Input Voltage	380/400/415Vac, (3Ph+N+PE)				
		Input Voltage Range	305~478Vac (Full load); 208~478Vac (50% Load)				
		Frequency	40-70Hz				
		Power Factor	0.99				
		Harmonic distortion (THDi)	≤3% (100% nonlinear load)				
	Bypass input	Rated AC Voltage	380/400/415Vac, (3Ph+N+PE)				
		Bypass voltage Range	220Vac Max.voltage: +25%(optional +10%,+15%,+20%) 230Vac Max.voltage: +20%(optional +10%,+15%) 240Vac Max.voltage: +15%(optional +10%) Min. voltage: -45% (optional -20%,-30%)				
		Bypass frequency Range	±10%				
		Synchronization - Window	±1%/±2%/±4%/±5%/±10% optional (default:±10%)				
		Max current (A)	Breaker 20A	Breaker 32A	Breaker 40A	Breaker 63A	Breaker 80A
		Upstream protection, bypass line	Thermomagnetic circuit-breaker, rated up to 125% of nominal output current. IEC 60947-2 curve C.				
		Current rating of neutral cable (A)	1.7×In				
	Generator Input		Support				
	OUTPUT						
Inverter Output	Power factor		1.0				
	Rated AC Voltage 1		380/400/415Vac, (3Ph+N+PE)				
	Voltage Regulation		±1%				
	Transient Voltage Response		±5% (linear load)				
	Phase Balance		120°±1°(100% unbalanced load)				
	Frequency		1.Line Mode: synchronize with input; when input frequency > ±10% (±1%/±2%/±4%/±5% optional), output (50/60±0.1%)Hz. 2.Battery Mode:(50/60±0.1%)Hz				
	Crest factor		3:1				
	Harmonic distortion (THD)		< 2% (linear load), <5% (non linear load)				
	Overload Capacity	AC Mode	Load≤110%: last 60min change to bypass, ≤125%: last 10min, change to bypass, ≤150%: last 1min change to bypass, >150% change to bypass immediately				
		Bat. Mode	Load≤110%: last 10min · ≤125%: last 1min · ≤150%: last 5S · > 150% shut down UPS immediately				
Efficiency	Normal mode	Up to 93.5%	Up to 94.5%				



SPECIFICATIONS

BATTERY							
Battery	Battery voltage	Standard unit	±120Vdc (20pcs 12V9AH); (2x20pcs 12V9AH;3x20 pcs 12V9AH optional)		±120Vdc (2x20pcs 12V9AH); (3x20pcs 12V9AH optional)	±120Vdc (3x20pcs 12V9AH)	±180Vdc (2x30pcs 12V9AH)
		Long run unit	10-30kVA: ±96120/108/Vdc; battery quantity (16~20 pcs, 16 pcs define, Standard unit and 20 pcs no power derating; 18 pcs output power factor 0.8/0.9; 16 pcs output power factor 0.7/0.8;) 40kVA / 10-30kVA (Optional): ±180300/288/276/264/252/240/228/216/204/192/Vdc (3050/48/46/44/42/40/38/36/34/32/pcs optional)				
	Float Voltage	2.25V/cell (selectable from 2.20-2.29V/cell) Constant current and constant voltage charge mode					
	Boost Charge Voltage	2.30V/cell (selectable from 2.30-2.40V/cell) Constant current and constant voltage charge mode					
	End of Discharge	1.75 V/cell (selectable from 1.60 or 1.90V/cell)					
	Charge Current(A) (charge current can be set according to battery capacity installed)	Standard unit: 1.35A (2.7A optional); Long run unit: Max. current 14A (limited by input current)	Standard unit: 2.7A(4.05A optional); Long run unit: Max. current 16A (limited by input current)	Standard unit: 2.7A(4.05A optional); Long run unit: Max. current 18A (limited by input current)	Standard unit: 4.05A; Long run unit: Max. current 20A (limited by input current)	Standard unit: 2.7A; Long run unit: Max. current 20A (limited by input current)	
	SYSTEM FEATURES						
Transfer Time	Synchronous transfer	Utility to Battery : 0ms; Utility to bypass: 0ms					
	Asynchronous transfer	Asynchronous transfer: 15ms (50 Hz), 13.3ms (60 Hz)					
Alarms	overload, utility abnormal, UPS fault, battery low, etc.						
Protection	short circuit, overload, over temperature, battery low, fan fault alarm.						
Communication Interface	USB, RS232,RS485, Parallel port, Dry contact, Intelligent slot, SNMP card (optional), Relay card (optional),Battery temperature sensor(optional)						
ENVIRONMENTAL							
Environment	Operating Temperature	0 °C~40 °C					
	Storage Temperature	-25 °C~ 55 °C (no battery)					
	Humidity	0~95% non condensing					
	Acoustical Noise (from 1M distance)	<55dB	<58dB	<61dB	<64dB		
	Altitude	< 1500m.When>1500m,lower the rated power for use					
PHYSICAL							
Dimension W×D×H (mm)	Standard unit : 250×900×868 Long run unit : 250×580×655						
Net weight (Kg)	129/35	186/39	187/40	236/43	239/46		
STANDARDS							
Safety certifications	IEC/EN62040-1,IEC/EN60950-1						
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8						



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