

ULTRA-POWER SERIES

20-300kVA Double Conversion Modular UPS



Where the UPS system is divided into independent modules or units. Each module typically contains its own set of components, such as power converters, inverters, and battery systems. These modules can operate independently or be combined to provide a scalable and flexible power protection solution.



General Features

- High reliability
- High Scalability and Redundancy
- Hot-swappable power modules and bypass modules.
- 3-level topology design, efficiency is up to 95.8%.
- High input power factor, it is up to 0.99
- THDi<3% (100% linear load).
- N+X parallel redundancy supports a maximum of 6 units in parallel.
- Batteries number of each group can be selected from 30 pieces to 50 pieces
- Output power factor is 1.0, UPS can supply power to 100% unbalanced load.
- High adaptability for load, it can connect full inductive load or capacitive load.
- With 7 inches (standard) and 10 inches (optional) colorful touch LCD screen
- Support SNMP, RS232, RS485, Dry contact interface.

SPECIFICATIONS

PARAMETERS							
Cabinet	Cabinet capacity kVA	60kVA	100kVA	200kVA	60kVA	150kVA	300kVA
	Module capacity kW	20kW			30kW		
	Max. module number	3	5	10	2	5	10
Input	Nominal voltage	380/400/415Vac, (3Ph+N+PE)					
	Operating voltage range	138~305Vac for 40% load; 305~485Vac for 100% load					
	Operating frequency range	40Hz~70Hz					
	Power factor	>0.99					
	Harmonic distortion (THDi)	≤3% (100% linear load)					
	Bypass voltage range	Max. voltage : 220V: +25% (optional+10%, +15%, +20%); 230V : +20% (optional +10%, +15%); 240V : +15% (optional +10%) Min. voltage : -45% (optional-10%, -15%, -20%, -30%)					
	Bypass frequency tracking range	±10%					
	Power walk in	Support					
	Generator input	Support					
	Rated voltage	380/400/415Vac, (3Ph+N+PE)					
Output	Power Factor	1					
	Voltage regulation	±1%					
	Output frequency	Line mode	Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1Hz)				
		Batt. mode	(50/60±0.1%)Hz				
	Crest factor	3:1					
	Harmonic distortion(THDv)	≤1% with linear load; ≤3% with nonlinear load					
	Efficiency	Up to 95.8%					
Battery	Battery voltage	360Vdc~600Vdc (30~50 pcs, 36 pcs default, 36~50 pcs no power derating; 32~34 pcs output power factor 0.9; 30 pcs output power factor 0.8)					
	Power module charge current	18A(Max.)					

ULTRA-POWER SERIES

20-300kVA Double Conversion Modular UPS



PARAMETERS			
System Features	Transfer time	Utility to Battery : 0ms; Utility to Bypass : 0ms	
	Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, 150% 1.2s shut down inverter
		Bypass mode	30°C : 135% for long term; 40°C: 125% for long term; >1000%, 100ms
	Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately	
	Low battery voltage	Alarm and Switch off	
	Self-diagnostics	Upon Power On and Software Control	
	Backfeed protection	Support	
	Battery	Advanced Battery Management	
	Noise suppression	Complies with EN62040-3	
	Audible&visual alarm	Line Failure, Battery Low, Overload, System Fault	
	Status LED & LCD display	Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault	
	Reading on the LCD display	Input, Output, Battery, Command, Setting, Maintenance	
	Communication Interface	Rs232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card(optional), SNMP card(optional), Battery temperature sensor(optional)	
Environment	Operating temperature	0°C~40°C	
	Storage temperature	-25°C~55°C	
	Humidity range	0~95% (non condensing)	
	Altitude	<1500m, derating required when >1500m	
	Noise level	<68dB	
Physical	Dimension WxDxH (mm)	UPS	600×850×2000
		Power Module	440×620×86 (2U)
	Net Weight (kg)	UPS cabinet	300
		Power Module	21
Standards	Safety	IEC/EN62040-1, IEC/EN62477-1	
	EMC	IEC/EN62040-2 (IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8)	

ORDERING GUIDE

Modular UPS Series	Cabinet Types		Cabinet Types	
	Section A (20 KW Power Module Supporting type cabinet)	Section B (30 KW Power Module Supporting type cabinet)	Section A for 20kW Power Module	Section B for 30kW Power Module
NMLU	A: None 060: 060kVA(Max. 3 Module) 100: 100kVA(Max. 5 Module) 200: 200kVA(Max. 10 Module)	B: None 060: 060kVA(Max. 2 Module) 150: 150kVA (Max. 5 Module) 300: 300kVA(Max. 10 Module)	A: None 01: 01 02: 02 03: 03 04: 04 05: 05 06: 06 07: 07 08: 08 09: 09 10: 10	B: None 01: 01 02: 02 03: 03 04: 04 05: 05 06: 06 07: 07 08: 08 09: 09 10: 10

Part no: & description (for example)

Part Number	Description
NMLU-A060A02	Modular UPS 60kVA Cabinet with 2pcs of 30kW power module
NMLU-A300A04	Modular UPS 300kVA Cabinet with 4pcs of 30kW power module
NMLU-A150A04	Modular UPS 150kVA Cabinet with 4pcs of 30kW power module