

ULTRA-POWER SERIES

100-600kVA 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
- Hot-swappable power modules and bypass modules.
- 3-level topology design, efficiency is up to 96%.
- High input power factor, it is up to 0.99
- THDi<3% (100% linear load).
- Support parallel expanded operation: maximum is 8 units.
- 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		100kVA	150kVA	200kVA	300kVA	400kVA	500kVA	600kVA	
Cabinet	Cabinet capacity kVA	100kVA	150kVA	200kVA	300kVA	400kVA	500kVA	600kVA	
	Module capacity kW	50kW							
	Max. module number	2	3	4	6	8	10	12	
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	03:01							
	Harmonic distortion(THDv)	≤2% with linear load; ≤4% with nonlinear load							
	Efficiency	Up to 96%							
	Battery	Battery voltage	VRLA Battery	360Vdc~600Vdc (30~50 pcs, 36 pcs default, 36~50 pcs no power derating; 32~35 pcs output power factor 0.9; 30/31 pcs output power factor 0.8)					
Lithium Battery			512Vdc						
Power module charge current		20A (Max.)							

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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	<58dB	<62dB	<65dB	<66dB	<68dB	<70dB
Physical	Dimension	UPS cabinet(S)	485×850×620		600×850×2000		
		UPS cabinet(F)	440×620×130		600×850×2000		
	WxDxH (mm)	Power Module	440×620×130		600×850×2000		
	Net Weight (kg)	UPS cabinet	113	270	290	470	650
Power Module		34					
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	Power Module
	Section for 50 KW Power Module Supporting type cabinet	Section for 50kW Power Module
NMLU	100: 100kVA (Max. 2 Module) 150: 150kVA (Max. 3 Module) 200: 200kVA (Max. 4 Module) 300: 300kVA (Max. 6 Module) 400: 400kVA (Max. 8 Module) 500: 500kVA (Max. 10 Module) 600: 600kVA (Max. 12 Module)	01: 01 02: 02 03: 03 04: 04 05: 05 06: 06 07: 07 08: 08 09: 09 10: 10 11: 11 12: 12

Part no: & description (for example)

Part Number	Description
NMLU-10001	Modular UPS 100kVA Cabinet with 1pcs of 50kW power module
NMLU-40005	Modular UPS 400kVA Cabinet with 5pcs of 50kW power module
NMLU- 60010	Modular UPS 600kVA Cabinet with 10pcs of 50kW power module