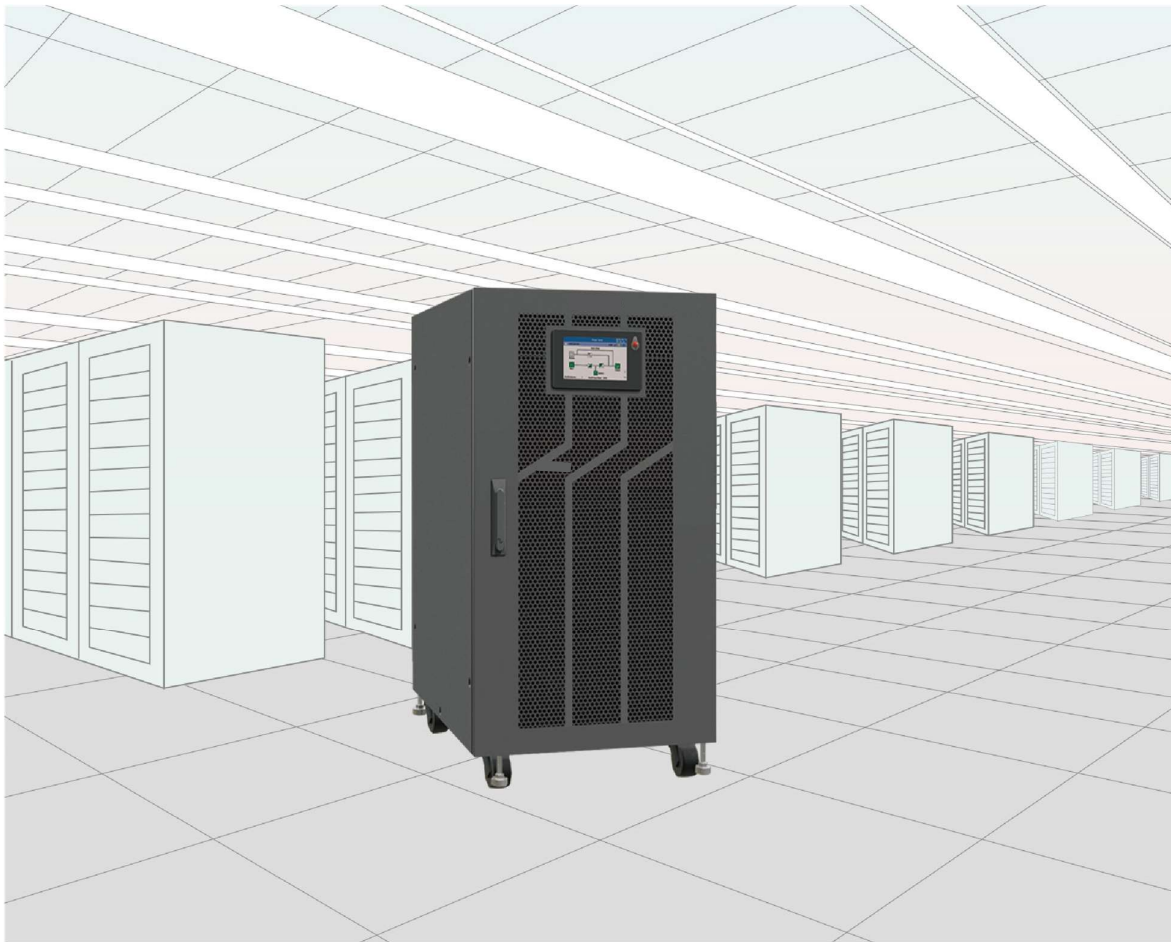


## Modular Series

Online Transformer less UPS series  
Mode: 3 phase input and 3 phase output

Power range: 10~150kVA (3-Level PF: 1.0)  
Module: 10/15/20/25/30kVA (2U)



## Modular design

All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated in MDC or customized cabinet.

Power module, Bypass module, Monitoring module, ECU control module, all these modules are hot-swappable.

## High reliability

Wide input voltage range, line voltage range is 138-485V, UPS will derate to 40% when input voltage is below 305V.

UPS adopts multiple digital bus and redundancy parallel control system, making sure the whole system keep

online if any single circuit fail. The UPS will keep on single or parallel working, if any module fail.

Thickened conformal coating, applicable for harsh environment such as high heat, high humidity, dust, salt spray.

## Green and power saving

High input power factor, it is up to 0.99.

3-level topology design, efficiency is up to 95.8%.

THDi<3% (100% linear load).

The UPS will work in sleeping mode when the load is very small.

## LBS function

LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system.

## Parallel redundancy function

Support parallel expanded operation: maximum is 6 units.

Support sharing batteries for the UPS in parallel.

## Flexible battery configuration

Batteries number of each group can be selected from 30 pieces to 50 pieces.

Large charging current can meet the requirement of long time backup

## Strong load capacity

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.

## Intelligent management

With 7 inches (standard) and 10 inches (optional) colorful touch LCD screen.

Support recording and exporting history logs and fault logs.

Support SNMP, RS232, RS485, BMS, Dry contact interface.

Support upgrade of CAN of power module inside of cabinet.

EPO & REPO function.

## Compatible with generator

Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator.

## Modular Series

### Technical Specifications

Module Model		KPUB3-010K-MS	
Cabinet Model	KPUB3-030K	KPUB3-050K	
Cabinet capacity (VA)	30k	50k	
Module capacity	10k		
(VA) Max. number	3	5	
Module Model		KPUB3-015K-MS	
Cabinet Model	KPUB3-045K	KPUB3-075K	
Cabinet capacity (VA)	45k	75k	
Module capacity	15k		
(VA) Max. number	3	5	
Module Model		KPUB3-020K-MS	
Cabinet Model	KPUB3-060K	KPUB3-100K	
Cabinet capacity (VA)	60k	100k	
Module capacity	20k		
(VA) Max. number	3	5	
Module Model		KPUB3-025K-MS	
Cabinet Model	KPUB3-050K	KPUB3-125K	
Cabinet capacity (VA)	50k	125k	
Module capacity	25 k		
(VA) Max. number	2+1(redundancy)	5	
Module Model		KPUB3-030K-MS	
Cabinet Model	KPUB3-060K	KPUB3-150K	
Cabinet capacity (VA)	60k	150k	
Module capacity (VA)	30k		
Max. number	2+1 (redundancy)	5	
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%); 230 Min. voltage: -45% (optional)V: +20% (optional +10%, +15%); 240V: +15% (optional +10%) l-10%, -15%, -20%, -30%)		
Bypass frequency	Frequency protection range: ±10%		
range Power Walk In	Support		
Generator input	Support		
OUTPUT			
Rated voltage	380/400/415Vac(3Ph+N+PE)		
Power factor	1.0		
Voltage regulation	±1%		
Output frequency	Line mode	Synchronize with input, when the input frequency >±10% (±1%/±2%/±3%/±4%/±5% optional), output 50/60 (±0.1Hz)	
	Bat. mode	(50/60±0.1%)Hz	

# SPECIFICATION SHEET



Crest factor	3:1		
Harmonic distortion (THDv)	≤1% with linear load; ≤3% with nonlinear load		
Efficiency	up to 95.8%		
<b>BATTERY</b>			
Battery voltage	Optional Voltage: ±180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional); 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.)		
<b>SYSTEM FEATURES</b>			
Transfer time	Utility to Battery : 0ms; Utility to Bypass: 0ms		
Overload	Line mode	≤110%, 60min; ≤125%, 10min; ≤150%, 1min; to bypass. > 150% Shut down Immediately.	
	Bypass mode	135% overload for long term; >1000% overload for 100 ms	
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		
Back feed protection	Support		
EPO (optional)	Shut down UPS immediately (turn to bypass optional)		
Battery	Advanced Battery Management		
Noise suppression	Complies with EN62040-3		
Audible & visual alarms	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)		
<b>ENVIRONMENTAL</b>			
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	<61dB	
<b>PHYSICAL</b>			
Dimension W×D×H (mm)	UPS cabinet	600×850×1200	
	Power module	440×620×86 (2U)	
Net weight (kg)	UPS cabinet	130~145	145~170
	Power module	10kVA: 19; 15~30kVA: 21	
<b>STANDARDS</b>			
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)		

