Subrack Modular Series

Online Transformer less UPS series
Power range : 10~150kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output
Module: 10/15/20/25/30/40/50kVA

Stand-alone with wheels as for easy

Rack-mounted compact saving valuable

SPECIFICATION SHEET

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.

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

Standard colorful touch 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.

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Subrack Modular Series

Technical Specifications:

Module Model	KPUB3-010K-RM		
Cabinet Model	KPUB3-020K	KPUB3-040K	KPUB3-060K
Cabinet capacity (VA)	10k~20k	10k~40k	10k~60k
Module capacity (VA)	10k		
Max. number	2	4	6
Module Model	KPUB3-015K-RM		
Cabinet Model	KPUB3-030K	KPUB3-060K	KPUB3-090K
Cabinet capacity (VA)	15k~30k	15k~60k	15k~90k
Module capacity (VA)	15k		
Max. number	2	4	6
Module Model	KPUB3-020K-RM		
Cabinet Model	KPUB3-040K	KPUB3-080K	KPUB3-120K
Cabinet capacity (VA)	20k~40k	20k~80k	20k~120k
Module capacity (VA)	20k		
Max. number	2	4	6
Module Model	KPUB3-025K-RM		
Cabinet Model	KPUB3-050K	KPUB3-100K	KPUB3-150K
Cabinet capacity (VA)	25k~50k	25k~100k	25k~150k
Module capacity (VA)	25k		
Max. number	2	4	6
Module Model	KPUB3-030K-RM		
Cabinet Model	KPUB3-060K	KPUB3-120K	KPUB3-150K
Cabinet capacity (VA)	30k~60k	30k~120k	30k~150k
Module capacity (VA)	30k		
Max. number	2	4	5+1
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 range	Frequency protection range: ±10%		
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)		
Output frequency – Bat. mode	(50/60±0.1%)Hz		
Crest factor	3:1		
Harmonic distortion (THDv)	≤1% with linear load; ≤3% with nonlinear load		

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Efficiency		up to 95.8%		
BATTERY				
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.)		
SYSTEM FEATURES				
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		
Backfeed 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)		
ENVIRONMENTAL				
Operating temperature		0℃~40℃		
Storage temperature		-25℃~55℃		
Humidity range		0~95% (non condensing)		
Altitude		<1500m, derating required when >1500m		
Noise level		<58dB	<60dB	<62dB
PHYSICAL				
Dimension W×D×H (mm)	UPS cabinet	485×850×353 (8U)	485×850×575 (13U)	485×850×752 (17U)
	Power module	440×620×86 (2U)		
Net weight (kg)	UPS cabinet	69	79	98
	Power module	10kVA: 19; 15~30kVA: 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)		

Specifications are subject to change without prior notice

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