



PowerExpand Series

More Power, More Efficiency, Less Space.
Hot Swappable Modular UPS.
PAY AS YOU GROW

10~1560kVA

PEX-PM10kVA	PEX-PM20kVA Power Module
PEX10-30kVA	PEX20-60kVA
PEX10-50kVA	PEX20-100kVA
PEX10-100kVA	PEX20-200kVA

Features

- Hot swap batteries and modules
- High frequency and double conversion on-line technology
- Advanced PFC technology
- 3U frame, rack-mounted and tower convertible
- EPO function
- Wide input voltage range
- Fully digitized microprocessor control
- Parallel redundancy
- Advanced battery management
- Lightning and surge protection, short circuit and overload protection
- Multilingual LCD and LED display
- EMI/RFI noise filter
- Smart RS232 communication with monitoring software
- Optional SNMP card slot



UPS Cabinet Control Panel



Module Control Panel

single module(3U)



10KVA / 20KVA 3:3 phase



Battery Cabinets(Optional)



3 U Battery Box Optional

Technical Specifications:

MODEL		PEX10-60KVA	PEX10-100KVA	PEX10-200KVA
Capacity (VA/watts)	UPS cabinet HPM module	10-60k / 9-54k	10-100k / 9-90k 10k / 9k, 20k / 18k	10-200k / 9-180k
INPUT				
Nominal voltage		380/400/415Vac, (3Ph+N+PE)		
Operating voltage range		208~478Vac		
Operating frequency range		40~70Hz		
Power factor		≥0.99		
Bypass voltage range		Max.voltage: 220v +25%(optional +10%,+15%,+20%) 230v 20% (optional +10%,+15%) 240v 15%(optional +10%) Min. voltage: -45% (optional -20%,-30%) Frequency protection range: ±10%		
Harmonic distortion (THDi)		2%(100% nonlinear load)		
Generator input		Support		
OUTPUT				
Output voltage		380/400/415Vac, (3Ph+N+PE)		
Voltage regulation		±1%		
Power factor		0.9		
Output frequency		1.Line Mode: ±1%、±2%、±4%、±5%、±10% of the rated frequency (optional) 2.Battery Mode: (50/60±0.1%)Hz		
Crest factor		3:1		
Harmonic distortion (THDv)		≤2% with linear load ≤5% with non linear load		
Efficiency		95.5%		
BATTERY				
Battery voltage		±192\±204\±216\±228\±240Vdc; battery quantity(optional)		
Charge Current	UPS cabinet HPM module	18A (Max) 6A (Max.) (charge current can be set according to battery capacity installed)	30A (Max)	60A (Max.)
Backup time		Depends on the capacity of external batteries		
SYSTEM FEATURES				
Transfer time		Utility to Battery : 0ms; Utility to bypass: 0ms		
Overload	Line Mode	Load≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, ≥150% turn to bypass mode immediately		
	Bat. Mode	Load≤110%: last 10min, ≤125%: last 1min, ≤150%: last 1S, ≥150% shut down UPS immediately		
	Bypass Mode	Breaker (10kVA: 20A / 20kVA:40A)		
Short circuit		Hold whole system		
Nose suppression		Complies with EN62040-2		
Communication interface		1. UPS cabinet : RS232, RS485, Dry Contact, Intelligent slot x 2(SNMP card,Relay card optional) 2. PEX series UPS module: RS232		
ENVIRONMENTAL				
Operating temperature		0 ~ 40°C		
Storage temperature		-25 ~ 55°C		
Humidity range		0 ~ 95% (non condensing)		
Altitude		<1500m		
Noise level		<65dB		
PHYSICAL				
Dimension	UPS cabinet HPM module	840×600×1400	1100×600×2000	
D×W×H (mm)			443x580x131 (3U)	
Net weight (Kg)	UPS cabinet	149	152	290
	HPM module		10kVA/26; 20kVA/31	
STANDARDS				
Safety		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		

Specifications are subject to change without prior notice.

