

HPM SERIES

6~1560kVA

1:1 HPM1106 / HPM1110

3:1 HPM3106 / HPM3110

3:3 HPM3310 / HPM3315 / HPM3320 / HPM 3325 /
HPM3330 / HPM3340



UPS Cabinet Control Panel



Module Control Panel

Features

- 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

single module(3U)



6kVA /10kVA 1:1 phase
6kVA /10kVA 3:1 phase



10kVA /15kVA / 20kVA / 25kVA
/ 30kVA 3:3 phase



40kVA 3:3 phase



Battery Cabinets(Optional)



3 U Battery Box Optional



Technical Specifications:

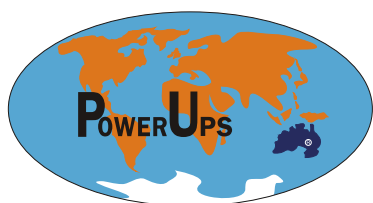
MODEL		HPM1106-30KVA	HPM1110-50KVA	HPM3106-30KVA	HPM3110-50KVA	HPM3110-100KVA	HPM3320-60KVA	HPM3320-100KVA	HPM3320-200KVA
Capacity (VA/watts)	UPS cabinet	6~30k / 4.8~24k	6~50k / 4.8~40k	6~30k / 4.8~24k	6~50k / 4.8~40k	6~100k / 4.8~80k	10~60k / 9~54k	10~100k / 9~90k	10~200k / 9~180k
	HPM module	6k / 4.8k, 10k / 8k					10k / 9k, 15k / 13.5k, 20k / 18k		
INPUT									
Nominal voltage		220/230Vac		380/400Vac (3Ph+N+PE)or 220/230Vac			380/400/415Vac, (3Ph+N+PE)		
Operating voltage range		120~276Vac		208~478Vac or 120~276Vac			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)		5%(100% non-linear load)					2%(100% nonlinear load)		
Generator input		Support							
OUTPUT									
Output voltage		220/230Vac					380/400/415Vac, (3Ph+N+PE)		
Voltage regulation		±1%							
Power factor		0.8					0.9/1 (Customized)		
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		93.5%					95.5%		
BATTERY									
Battery voltage		±96\±108\±120Vdc; battery quantity(optional)					±192\±204\±216\±228\±240Vdc; battery quantity(optional)		
Charge Current	UPS cabinet	30A (Max.)	60A (Max.)	30A (Max.)		60A (Max.)	18A (Max.)	30A (Max.)	60A (Max.)
	HPM module	6A (Max.) (charge current can be set according to battery capacity installed)							
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 30s, ≤ 125%: last 1s, ≤ 150%: last 200ms, ≥ 150% shut down UPS immediately					Load ≤ 110%: last 10min, ≤ 125%: last 1min, ≤ 150%: last 1s, ≥ 150% shut down UPS immediately		
	Bypass Mode	Breaker (6kVA:40A / 10kVA:60A)					Breaker (10kVA: 20A / 15kVA: 32A / 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. HPM series UPS module: RS232							
ENVIRONMENTAL									
Operating temperature		0~40℃							
Storage temperature		-25~55℃							
Humidity range		0~95% (non condensing)							
Altitude		<1500m							
Noise level		<55dB				<65dB			
PHYSICAL									
Dimension D×W×H (mm)	UPS cabinet	840×600×1400	840×600×2000	840×600×1400		840×600×2000	840×600×1400 1100×600×2000		
	HPM module	443x580x131 (3U)							
Net weight (Kg)	UPS cabinet	138	150	138	150	213	149	152	290
	HPM module	6kVA/23; 10kVA/25					10kVA/26; 15kVA/30; 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.

Technical Specifications:

MODEL	HPM3325-250KVA	HPM3330-90KVA	HPM3330-150KVA	HPM3330-300KVA	HPM3340-400KVA	HPM3340-520KVA	HPM3340-800KVA	HPM3340-1040KVA	HPM3340-1560KVA		
Capacity (VA/watts)	UPS cabinet	250k / 225k	90k / 81k	150k / 135k	300k / 270k	400k / 360k	520k / 468k	800k / 720k	1040k / 936k	1560k / 1404k	
	HPM module	25k / 22.5k	25k / 22.5k, 30k / 27k				40k / 36k				
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)		3%(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		95.0%									
BATTERY											
Battery voltage		± 192\± 204\± 216\± 228\± 240Vdc; battery quantity(optional)									
Charge Current	UPS cabinet	60A (Max.)	30A(Max.)	50A(Max.)	100A(Max.)		130A (Max.)	200A (Max.)	260A (Max.)	390A (Max.)	
	HPM module	6A (Max.)	25kVA:6A (Max.) / 30kVA:10A (Max.)			10A (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				Load ≤ 110%: last 60min, ≤ 125%: last 10min, ≤ 150%: last 1min, ≥ 150% shut down UPS immediately					
	Bypass Mode	Breaker (25kVA:40A)	Breaker (25kVA:40A / 30kVA:60A)			40kVA:95A					
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. HPM series UPS module: RS232									
ENVIRONMENTAL											
Operating temperature		0~40℃									
Storage temperature		-25~55℃									
Humidity range		0~95% (non condensing)									
Altitude		<1500m									
Noise level		<70dB				<73dB					
PHYSICAL											
Dimension	UPS cabinet	600×1100×2000	600×840×1400		600×1100×2000		1200×860×2000		1800×860×2000	3000×860×2000	4800×1100×2000
D×W×H (mm)	HPM module	443x580x131 (3U)									
Net weight (Kg)	UPS cabinet	290	158	170	307	750	860	1300	1810	2800	
	HPM module	32	25kVA/32; 30kVA/33.5			34					
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									

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