

Uninterruptible Power Supply



- 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

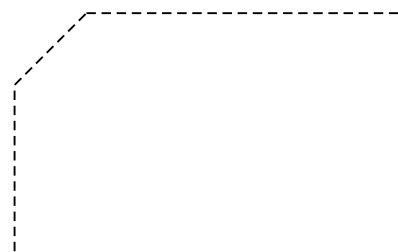


Protect your computer and sensitive equipments from any electrical disturbance.

MODEL	UPS Frame	M30F511	M50F511	M30F531	M50F531	M100FA31	M60F333	M100F533	M200FA33
	UPS Module	M6U11; M10U11		M6U31; M10U31			M10U33; M15U33; M20U33		
Capacity (VA/watts)	UPS Frame	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
	UPS Module	6K/4.8K; 10K/8K		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% non-linear 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 (THD)	≤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\ ± 240Vdc; battery quantity (optional)			
Charge current	UPS Frame	30A (Max.)	60A (Max.)	30A (Max.)	60A (Max.)	18A (Max.)	30A (Max.)	60A (Max.)	
	UPS 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 60S, ≤ 125% last 1S, ≤ 150% last 200ms, ≥ 150% shutdown UPS immediately				Load ≤ 110%: last 10min, ≤ 125% last 1min, ≤ 150% last 1S, ≥ 150% shutdown 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 Frame: RS232, RS485, Dry Contact, Intelligent slot x 2 (SNMP card, Relay card optional) 2. UPS Module: RS232								
ENVIRONMENTAL									
Operating temperature	0 ~ 40 °C								
Storage temperature	-25 ~ 55 °C								
Humidity range	0 ~ 95% (non condensing)								
Altitude	<1500m								
Noise level	<55dB					<65dB			
PHYSICAL									
Dimension D x W x H (mm)	UPS Frame	840x600x1400		840x600x1400		840x600x2000	840x600x1400		1100x600x2000
	UPS Module	443x580x131 (3U)							
Net weight (Kg)	UPS Frame	138	150	138	150	213	149	152	290
	UPS 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.

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MODEL	UPS Frame	M90F333	M150F533	M300FA33	M200F533	M320F833	M400FA33	M520FD33
	UPS Module	M20U33; M30U33			M40U33			
Capacity (VA/watts)	UPS Frame	20-90K/18-81K	20-150K/18-135K	20-300K/18-270K	40-200K/36-288K	40-320K/36-288K	40-400K/36-360K	40-520K/36-468K
	UPS Module	20K / 18K; 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% non-linear 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 (THD)	≤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 Frame	30A (Max.)	50A (Max.)	100A (Max.)	50A (Max.)	80A (Max.)	100A (Max.)	130A (Max.)
	UPS Module	20kVA: 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% shutdown UPS immediately			Load ≤ 110%: last 60min, ≤ 125% last 10min, ≤ 150% last 1min, ≥ 150% shutdown UPS immediately			
	Bypass Mode	Breaker (20kVA:40A / 30kVA:60A)			Breaker (40kVA:95A)			
Short circuit	Hold whole system							
Nose suppression	Complies with EN62040-2							
Communication interface	1. UPS Frame: RS232, RS485, Dry Contact, Intelligent slot x 2 (SNMP card, Relay card optional) 2. UPS Module: RS232							
ENVIRONMENTAL								
Operating temperature	0 ~ 40 °C							
Storage temperature	-25 ~ 55 °C							
Humidity range	0 ~ 95% (non condensing)							
Altitude	<1500m							
Noise level	<70dB					<73dB		
PHYSICAL								
Dimension D x W x H (mm)	UPS Frame	840x600x1400		1100x600x2000	840x600x1400	840x600x2000	860x1200x2000	
	UPS Module	443x580x131 (3U)						
Net weight (Kg)	UPS Frame	158	170	307	185	285	750	860
	UPS Module	20kVA/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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