

# UPS Online Double Conversion Modular

## 3 Phase / 3 Phase

### Series MJ (80~160 KVA)

With extendable capacity up to 160KVA/160KW in each closet and full DSP control technology, is the third generation of three phase high frequency modular UPS. All internal modules (power module, charger module and monitor module ) are modularly designed and hot swappable. In addition, they are constructed with small modules, assuring both system compactness and reliability. Its full isolation design between fragile components and air flue makes the best of combination of reliability, functionality and flexibility. Moreover, this system adopts advanced "N+X" wireless parallel and redundancy technology, avoiding single point failure, and further strengthening the reliability.



#### Specifications

- High frequency online double—conversion with DSP control
- Hot swappable operation for all modules
- Inbuilt integrated PDU system, easy installation and economic initial investment
- Wide input voltage range, 50Hz/ 60Hz auto sensing frequency
- Support two modes of frequency conversion: 50Hz input/60Hz output and 60Hz input / 50Hzoutput
- Advanced "N+X" wireless parallel and redundancy technology easily set up different numbers of redundancy UPS module via LCD
- Share battery pack in parallel operation, saving user's battery cost
- System capacity up to 160KVA/160KW constructed by each module 20KVA / 20KW, single charger module be equipped with 30 A
- Charging current,4 modules be configured maximally
- Flexible charger parameter and battery configuration setting, selectable battery number: 32 pcs /34 pcs/36pcs/38 pcs/40 pcs
- Advanced intelligent battery management technique, prolong the working life of battery effectively
- Support battery cold start and mains auto restart
- Complete isolation between key components and air duct effectively improve the system reliability
- Fragile components can be replaced easily as modules at low maintenance cost
- Front accessible maintenance, top / bottom cable entry compatible
- Perfect protection for hardware and software (C class lightning protection, circuit breaker, fuse, software and hardware protection),
- Robust self detection, abundant event log for future check
- 5.7 inches LCD touch screen, friendly human machine interaction
- Standard emergency power off (EPO)
- Standard RS232/USB/RS485/dry contacts communication port
- Optional SNMP communication port
- Inbuilt battery module available, 40 x 12V/9AH for each module





MODEL		MJ 800	MJ 160
POWER	KVA	80 KVA	160 KVA
	KW	80 KW	160 KW
	Numbers of parallel module	1~4	1~8
	Numbers of redundancy module	0~3	0~7
	UPS power module	20 KVA/ 20 KW	
Input	Rated Voltage	380 V/ 400 V/ 415 V	
	Voltage range	204 ~ 242 V (load ≤ 50%)	
		242 ~ 277 V (50% < load ≤ 70%)	
		277V ~ 520 V (70% < load ≤ 100%)	
	Rated frequency	50 / 60 Hz (auto-sense)	
	frequency range	40 ~ 70 Hz	
	Power factor	≥ 0.99	
	Total harmonic distortion (THDI)	≤ 3%	
Bypass voltage range	Rated output voltage -40%~rated output voltage +20% (settable via LCD)		
OUTPUT	Voltage	380 V/ 400 V/ 415 V	
	Voltage regulation	± 1%	
	Frequency	Synchronized with utility in mains mode 50/60 Hz ± 0.1% in battery mode	
	Power factor	1.0	
	Waveform	Pure sine wave	
	Crest factor	3:1	
	Total harmonic distortion (THDV)	≤ 1% (linear load); ≤ 5% (non-linear load)	
	Transfer time	0 ms	
	Inverter overload capability	110% ~ 130%: transfer to bypass in 10 mins 130% ~ 150%: transfer to bypass in 1 min > 150%: transfer to bypass in 0.5 s	
	Bypass overload capability	≤ 150%: long time running > 150%: power off in 10 s	
	BATTERIES	DC voltage	± 240 vdc (options : ± 192 vdc/± 240 vdc/± 216 vdc/± 228 vdc)
Inbuilt battery of standard model		40 x 12 V / 9 Ah for each module	
Charging current		1 ~ 30 A / 60 A (settable via LCD)	
SYSTEM	Efficiency	≥ 94%	
	Display panel	5.7 Inches LCD touch screen	
	Alarm	battery mode, low battery , fans fault etc	
	EMI	EN62040-2	
	EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (surge)	
OTHERS	Humidity	Supports Windows® 98 / 2000 / 2003 / XP/Vista / 2008 /Windows® 7/8/10	
	Noise level	Power management from SNMP manager and web browser	
	Module dimensions (mm) W x D x H	0 ~ 95% RH @ 0 ~ 40°C (non-condensing) ≤ 60 dB	
	Module weight	482 x 590 x 131	
	Communications	28 kg / power module, 27 kg / charger module, 7kg / monitoring module	
PHYSICAL	UPS dimensions (mm) W x D x H	600 x 1000 x 1600	600 x 1000 x 2000
	UPS packaged dimensions (mm) W x D x H	700 x 1070 x 1760	700 x 1070 x 2160
	UPS Net / Gross weight (kg) Without inbuilt battery and power module	225 / 245	290 / 310
	input / output / bypass breaker	Yes	Yes