

UPM 3 PHASE TRUE ONLINE SERIES

10 kVA ~ 60 kVA
(3:3 / 3:1 / 1:1)
PF 1.0



Features

- High frequency on-line double conversion technology, transformerless UPS
- Advanced dual-core DSP control technology and IGBT 3 phase rectifier technology
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 96%, energy saving rate is doubled
- Output power factor 1.0
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range
- 50 / 60 Hz auto-sensing frequency
- 50 / 60 Hz frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Hot-Swappable Battery, easy to change battery in on-line mode.
- Flexible battery configuration setting, selectable battery numbers: 32~ 40 pcs
- Digitally controlled charger
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Compact internal layout, small footprint
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Effective hardware and software protection, robust self-diagnosis function, abundant event logs for future check
- Standard RS232, USB, RS485, EPO, Dry contacts, Parallel port
- Optional SNMP card, WI-FI card, GPRS card, SMS alarms

Specifications

MODEL	UPM-10	UPM-15	UPM-20	UPM-30	UPM-40	UPM-60
Power rating	10kVA/10kW	15kVA/15kW	20kVA/20kW	30kVA/30kW	40kVA/40kW	60kVA/60kW
INPUT						
Phase	3:3 / 3:1 / 1:1					
Rated voltage	220/230/240Vac (L-N) 380/400/415Vac (3Φ + N + PE)					
Voltage range	132~275Vac (L-N) 228~478Vac					
Rated frequency	50 / 60 Hz					
Frequency range	40 ~ 70 Hz					
Power factor	> 0.99					
Bypass voltage range	Selectable, default -20%~+15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%					
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz					
Input current distortion THDi	<3%					
Bypass overload	125%: long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms					
OUTPUT						
Rated voltage	220/230/240Vac (L-N) 380/400/415Vac (3Φ + N + PE)					
Voltage precision	±1% (linear load)					
Frequency	Synchronized with utility in mains mode, 50/60 Hz ± 0.1 Hz in battery mode					
Waveform	Sinusoidal					
Power factor	1					
Total harmonic distortion (THDv)	<1%					
Crest factor	3:1					
Overload	<110%, 60min; 110%~125%, 10min; >150%, 200ms					
BATTERIES						
DC voltage	Long time model: ±240VDC (selectable, 32 - 40pcs)					
Standard model battery voltage	(10+10) x 9AH	(20+20) x 7AH	(20+20) x 9AH	(15+15) x 9AH x 2 strings	(20+20) x 9AH x 2 strings	/
Charging current	10A Max.				15A Max.	20A Max.
Charger voltage precision	1%					
SYSTEM						
Efficiency	95% Max.				96% Max.	
Transfer time	0 ms					
Max. number of parallel connections	4					
Interface	Standard: RS232, RS485, USB, battery cold start Option: programmable dry contact, SNMP, parallel kit					
Protections	Short-circuit; overload; over temperature; overvoltage; undervoltage; battery low voltage; battery overvoltage; phase failure, phase inversion; electric shock protection and fan failure					
Display and Alarm	5 Inches LCD touch screen: display all of UPS status: In/out of capacity, voltage, current , frequency, phase; % loads; % battery capacity; battery status; fault code; time; date... LED indicator and alarm for warning					
EMI	IEC/EN-62040-1 ; IEC/EN-62040-2					
EMS	IEC 61000-4-2 (ESD) , IEC 61000-4-3 (RS) - level 3, IEC 61000-4-4 (EFT) , IEC 61000-4-5 (Surge)					
ENVIRONMENT						
Operating temperature	0℃ ~ 40℃					
Storage temperature	-40℃ ~ 70℃					
Relative humidity	0 ~ 95% (non-condensing)					
Altitude	<1000m, load derated 1% per 100m from 1000 ~ 2000m					
Noise level at 1 m	58dB Max.			62dB Max.		
OTHERS						
Dimensions (W × D × H) (mm)	250 x 720 x 560 (S) 250 x 720 x 560 (H)	250 x 800 x 700 (S) 250 x 720 x 560 (H)		250 x 840 x 930 (S) 250 x 840 x 650 (H)	350 x 800 x 1280(S) 250 x 720 x 560 (H)	250 x 790 x 560 (H)
Packaged dimensions (W × D × H) (mm)	350 x 800 x 722 (S) 350 x 800 x 718 (H)	350 x 900 x 862 (S) 350 x 800 x 718 (H)		350 x 950 x 1102 (S) 350 x 980 x 810 (H)	450 x 900 x 1400 (S) 350 x 800 x 718 (H)	350 x 850 x 818 (H)
Net weight (kg)	82 (S) 31 (H)	131 (S) 33 (H)	145 (S) 33 (H)	215 (S) 42 (H)	300 (S) 42 (H)	48 (H)
Gross weight (kg)	93 (S) 40 (H)	142 (S) 42 (H)	156 (S) 42 (H)	227 (S) 52 (H)	310 (S) 52 (H)	58 (H)

- S means standard model, H means long time model.
- Derate capacity to 90% when the number of batteries is set to 32 pcs for 40kVA/60kVA model.

- Custom-made specifications are acceptable.
- All specifications are subject to change without notice.
- Derate capacity to 60% when used at 3:1.

Up Select Electronics Co., Ltd.

4F, No.56 Jian Er Rd., Chung Ho City - Taipei - Taiwan R.O.C. Tel: 886 2 22286170 Fax: 886 2 82215491

Up Select Viet Nam Co., Ltd.

Add: Up Select Tower – No.22 Ha Dinh Lake, Ha Dinh St., Thanh Xuan, Ha Noi

Tel: 024. 62751733 - 62850811 * Fax: 024.62751733 * Hotline: 0904292222

Website: www.upselect.com.vn * Email: tuvankythuat@upselect.com; chienddd@upselect.com