

ELECTWAY *UPS Catalog*

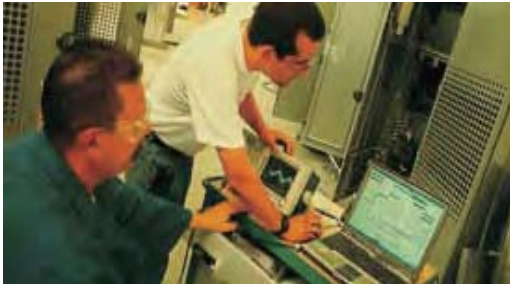


Green and saving energy, Never interruptible

Guangzhou Electway Technology Co.,Ltd

www.electway.net

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High Frequency Online Single Phase UPS

XPC series (1KVA-3KVA)

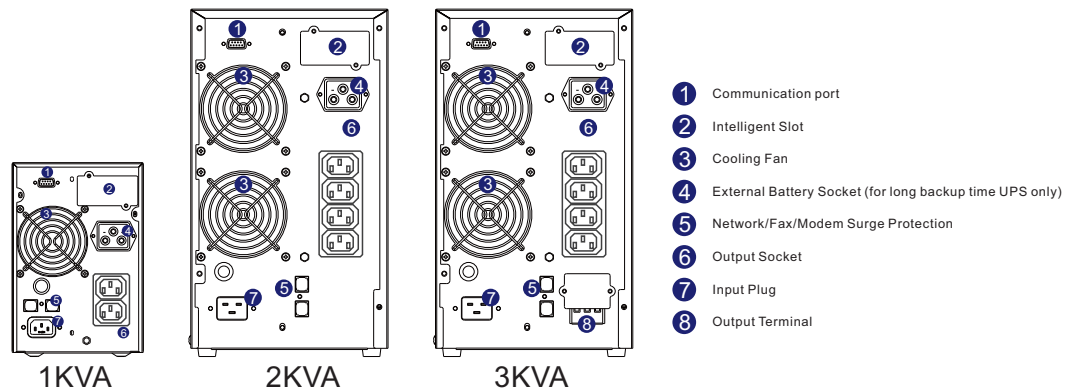
XPC series 1-3KVA UPS is a true online double conversion technology single-phase UPS system which provides clean, high level quality power for critical devices such as small computer centers, servers, telecom applications.

XPC series 1-3KVA UPS is designed smart battery management technology which prolongs battery life and makes battery management easy and comprehensive dual protection function provides high system reliability.



Features

- True online double conversion completely isolates the load from various grid faults and pollution
- Digital control technology provides high performance and system reliability
- Advanced IGBT-based the latest rectifier and inverter technology, high input power factor and low output harmonic
- Extra-wide input voltage and frequency range adapts adverse grid environment, compatible with diesel generator
- Intelligent battery management with directly checking and setting charge and discharge of battery on LCD extends battery life
- Unique dual protection function with hardware and software provides comprehensive protections
- Direct DC cold start function offers emergency on ups by battery without utility power
- Large LCD display monitor various real-time information at a glance
- Multiple monitoring and alarm functions available with dry contact for common alarms and RS232 for remote monitoring and SNMP card(optional) for web-based monitoring



Technical data

Model	XPC 1101	XPC 1101L	XPC 1102	XPC 1102L	XPC 1103	XPC 1103L
Rated Power	1KVA/800W			3KVA/2400W		

Input

Phase	L+N+G
Input Voltage	(110±5 to 296±5)Vac
Input Frequency	(45±0.5 to 55±0.5)Hz
Input PF	>0.98
Bypass voltage	(80±5 to 264±5)Vac

Output

Output Voltage	220/230/240Vac±2%
Output Power Factor	0.8
Output Frequency	45Hz~55Hz, same with utility power; <45Hz and >55Hz, lock 50Hz Battery mode: 50/60(1±0.2%)Hz"
THD	THD<3% (linear load)~THD<5% (Non-linear)
Transfer Time	Normal to battery mode: 0ms, Bypass mode to normal : 0ms
Overload Capability	105±5%<Load<150±5%: 30s to bypass; >150±5%: 300ms to bypass;

Battery

Battery Voltage	36Vdc	72Vdc	96Vdc
Backup Time (Full/Half Load)	>5min(depends on battery capacity for L type)		
Charging voltage	41.2±0.5V	82.5±1V	110±1V
Overvoltage	43.2V	86.4V	115.2V
Charging Current	1A/7A(L type can set the charging current)		

System

Restart	After turning off due to cut off voltage of battery, UPS will restart, when voltage is in (175±5~286±5Vac) and frequency is in (45~55Hz)					
Efficiency	>88%			>90%		
Communication	RS-232 + Intelligent Slot					
Noise (1m front)	<45dB			<50dB		
Operation Temperature	0°C to 40°C					
Humidity	0~95% non-condensing					
Storage Temperature	-40°C to 50°C					
Altitude	1000m					
Net Dimension(W*D*H mm)	140*360*210			195*455*330		
Net Weight(kg)	12.5	6.5	27	16	33	16

High Frequency Online Single Phase UPS

XPC series (6KVA-10KVA)

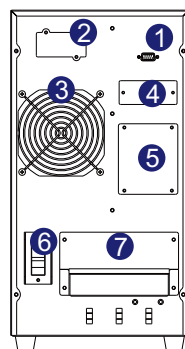
XPC series 6-10KVA UPS is a true online double conversion technology single-phase UPS system which provides clean, high level quality power for critical devices such as small computer centers, servers, telecom applications.

XPC series 6-10KVA UPS is designed smart battery management technology which prolongs battery life and makes battery management easy and comprehensive dual protection function provides high system reliability.

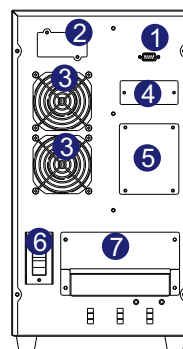


Features

- True online double conversion completely isolates the load from various grid faults and pollution
- Digital signal processing using latest DSP technology provides high performance and system reliability
- Advanced IGBT-based the latest rectifier and inverter technology, high input power factor and low output harmonic
- Extra-wide input voltage and frequency range adapts adverse grid environment, compatible with diesel generator
- Advanced distributed parallel technology ensures 4 units in parallel for redundancy or capacity
- Intelligent battery management with directly checking and setting charge and discharge of battery on LCD extends battery life
- Unique dual protection function with hardware and software provides comprehensive protections
- Direct DC cold start function offers emergency on ups by battery without utility power
- Large LCD display monitor various real-time information at a glance
- Multiple monitoring and alarm functions available with dry contact for common alarms and RS232 for remote monitoring and SNMP card(optional) for web-based monitoring



6KVA



10KVA

- ① Communication port
- ② Intelligent Slot
- ③ Cooling Fan
- ④ Parallel Port
- ⑤ Maintenance Bypass Switch
- ⑥ Input Breaker
- ⑦ Terminal Block

Technical data

Model	XPC 1106	XPC 1106L	XPC 1110	XPC 1110L
Rated Power	6KVA/4.8KW		10KVA/8KW	

Input

Phase	L+N+G
Input Voltage	(120±5 to 274±5)Vac
Input Frequency	(46±0.2 to 54±0.2)Hz
Input PF	>0.98
Bypass voltage	(187±5 to 253±5)Vac

Output

Output Voltage	220Vac±1%
Output Power Factor	0.8
Output Frequency	Normal Mode, same with utility power Battery mode: 49.9-50.1Hz
THD	THD<3% (linear load)
	THD<5% (Non-linear)
Transfer Time	Normal to battery mode: 0ms; Bypass mode to normal mode: 0ms
Overload Capability	108±5%<Load<125±5%: 1min to bypass;125±5%<Load<150±5%: 30s to bypass;>150±5%: 500ms to bypass;

Battery

Voltage	192Vdc
Charging voltage	220Vdc
Overvoltage	230Vdc
Charging Current	2A/4A (L type)

System

Efficiency	>90%	>92%		
Communication	RS232 + Intelligent Slot			
Restart Function	After turning off due to cut off voltage of battery, UPS will restart when voltage is in (187±5~253±5Vac) and frequency is in (47~53Hz)			
Noise (1m front)	<45dB	<50dB		
Operation Temperature	0°C to 40°C			
Humidity	0~95% non-condensing			
Storage Temperature	-40°C to 50°C			
Altitude	1000m			
Net Dimension(W*D*H mm)	240*500*460	240*500*460	240*500*615	240*500*460
Net Weight(kg)	52	20	63	21

High Frequency Online 3/1 Phase UPS XPC series (10KVA-20KVA)

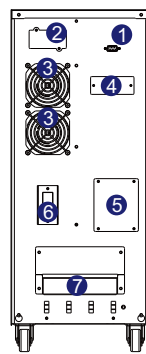
XPC series 10-20KVA UPS is a true online double conversion technology three-phase input and single-phase output UPS system which provides clean, high level quality power for critical devices such as small computer centers, servers, telecom applications.

XPC series 6-10KVA UPS is designed smart battery management technology which prolongs battery life and makes battery management easy and comprehensive dual protection function provides high system reliability.

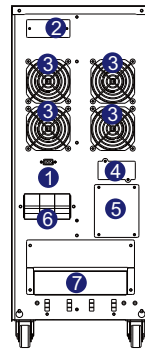


Features

- True online double conversion completely isolates the load from various grid faults and pollution
- Digital signal processing using latest DSP technology provides high performance and system reliability
- Advanced IGBT-based the latest rectifier and inverter technology, high input power factor and low output harmonic
- Extra-wide input voltage and frequency range adapts adverse grid environment, compatible with diesel generator
- Advanced distributed parallel technology ensures 4 units in parallel for redundancy or capacity
- Intelligent battery management with directly checking and setting charge and discharge of battery on LCD extends battery life
- Unique dual protection function with hardware and software provides comprehensive protections
- Direct DC cold start function offers emergency on ups by battery without utility power
- Large LCD display monitor various real-time information at a glance
- Multiple monitoring and alarm functions available with dry contact for common alarms and RS232 for remote monitoring and SNMP card(optional) for web-based monitoring



10KVA



15/20KVA

- ① Communication port
- ② Intelligent Slot
- ③ Cooling Fan
- ④ Parallel Port
- ⑤ Maintenance Bypass Switch
- ⑥ Input Breaker
- ⑦ Terminal Block

Technical data

Model	XPC 3110L	XPC 3115L	XPC 3120L
Rated Power	10KVA/8KW	15KVA/12KW	20KVA/16KW

Input

Phase	3W+N+G
Input Voltage	(207-475)Vac
Input Frequency	(46-54)Hz
Input PF	>0.99
Bypass voltage	(302-437)Vac

Output

Output Voltage	220Vac±1%
Output Power Factor	0.8
Output Frequency	Normal mode: same with utility power; battery mode: 49.9~50.1Hz
THD	THD<3% (linear load); THD<5% (non-linear load)
Transfer Time	Normal to battery mode: 0ms Bypass mode to normal: 0ms
Overload Capability	load≤105±5%: normally run at normal mode turn to normal mode after overload disappearing; 105±5%≤load≤125±5% 60s; 125%≤load≤150±5% 30s

Battery

Voltage	192Vdc
Charging voltage	220Vdc
Overvoltage	230Vdc
Charging Current	2A/4A(L type)

System

Efficiency	>90%		
Communication	LCD display+RS-232 + Intelligent slot		
Restart Function	After turning off due to cut off voltage of battery, UPS will restart when voltage is in (302±5~437±5Vac) and frequency is in (47~53Hz)		
Noise (1m front)	<45dB	<50dB	
Operation Temperature	0°C to 40°C		
Humidity	0~95% non-condensing		
Storage Temperature	-40°C to 50°C		
Altitude	1000m		
Net Dimension(W*D*H mm)	240×500×460		
Net Weight(kg)	27	32	32

High Frequency Online 3 Phase UPS HF series (20KVA-80KVA)

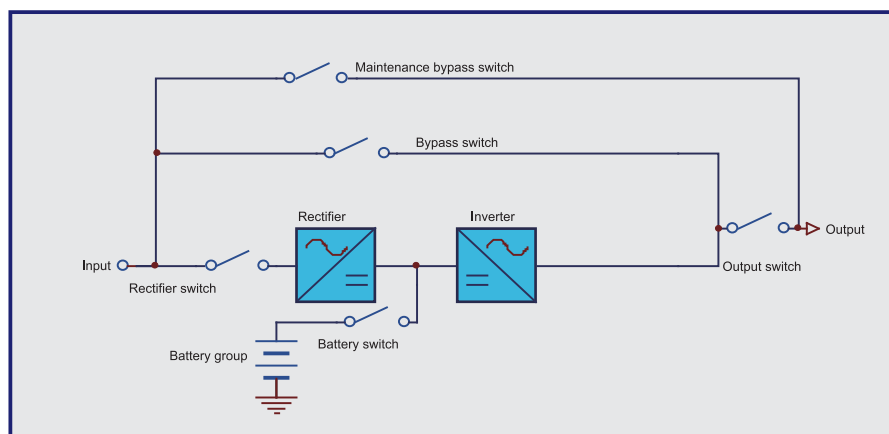
HF series 20-80KVA UPS a true on-line double-conversion technology three-phase input / three-phase output UPS system, it is an ideal for protection and power quality where suitable for data center, medical equipments and call center.

HF series 20-80KVA UPS is designed smart battery management technology which prolongs battery life and makes battery management easy and comprehensive dual protection function provides high system reliability.



Features

- True online double conversion completely isolates the load from various grid faults and pollution
- Digital signal processing using latest DSP technology provides high performance and system reliability
- Advanced IGBT-based the latest rectifier and inverter technology, high input power factor and low output harmonic
- Extra-wide input voltage and frequency range adapts adverse grid environment, compatible with diesel generator
- Advanced distributed parallel technology ensures 8 units in parallel for redundancy or capacity
- Intelligent battery management with directly checking and setting charge and discharge of battery on LCD extends battery life
- Unique dual protection function with hardware and software provides comprehensive protections
- Direct DC cold start function offers emergency on ups by battery without utility power
- Large LCD display monitor various real-time information at a glance
- Multiple monitoring and alarm functions available with dry contact for common alarms and RS232 for remote monitoring and SNMP card(optional) for web-based monitoring



Technical data

Model	HF 3320L	HF 3330L	HF 3340L	HF 3360L	HF 3380L
Capacity	20KVA/16KW	30KVA/24KW	40KVA/32KW	60KVA/48KW	80KVA/64KW

Input

Voltage Range	380Vac(-40%~+25%)
Frequency Range	40~70Hz
Phase	3Ph+N+G
Power Factor	>0.99

Bypass

Voltage Range	380Vac(-15%~+15%)
Frequency Range	40~70Hz
Overload Capability	<150%, normally running

Battery

Battery Voltage	336/360/384Vdc(28~32pcs)
Charging Current	1-10A(setting by battery capacity)

Output

Phase	3Ph+N
Voltage Range	380VAC±1%
Frequency Range	50Hz±0.1%
Power Factor	0.8
THD	<2%(linear load); <4%(non-linear load)
Overload Capability	<105% normally running; 105%-125% 10min; 125%-150% 1min; 150% 1ms

System

Efficiency	>92%				
Cooling	Fan Cooling				
Communication Interface	RS232,RS485,SNMP card, Dry Contact				
Operating Temperature	0-40℃				
Humidity	0-95% non-condensing				
Altitude	<4000m				
Noise Level	<50dB	<60dB		<65dB	
Protection Level	IP20				
Storage Temperature	-25℃~70℃				
Net Dimension(W*D*H mm)	420*643*956	470*710*1150		600*800*1850	
Net Weight(kg)	82	110	114	282	306

Modular Online UPS

HM series (10KVA-210KVA)

HM series 10-210KVA UPS a true on-line double-conversion technology single-phase input / single-phase output or three-phase input / three-phase output modular UPS system, it is an ideal for protection and power quality where suitable for data center, medical equipments and call center.

HM series 10-210KVA UPS is designed smart battery management technology which prolongs battery life and makes battery management easy and comprehensive dual protection function provides high system reliability.



Features

- True online double conversion completely isolates the load from various grid faults and pollution
- Digital signal processing using latest DSP technology provides high performance and system reliability
- Modular design with N+1 redundancy technology for high reliability and scalability
- Strong load capability by full bridge inverter technology with three-level voltage modulation normally supply power even if 100% unbalanced load
- Extra-wide input voltage and frequency range adapts adverse grid environment, compatible with diesel generator
- Intelligent battery management with directly checking and setting charge and discharge of battery on LCD extends battery life
- Unique dual protection function with hardware and software provides comprehensive protections
- Advanced distributed parallel technology ensures 4 sets in parallel without centralized bypass cabinet
- Direct DC cold start function offers emergency on ups by battery without utility power
- Large touch LCD display monitor various real-time information at a glance
- Multiple monitoring and alarm functions available with dry contact for common alarms and RS232 for remote monitoring and SNMP card(optional) for web-based monitoring

Options

- UPS dry contacts
- Temperature and humidity sensor
- Rack battery cabinet
- Isolation transformer
- SNMP card

Modules

- 10KVA power module
- 20KVA power module
- 30KVA power module
- Bypass module
- Monitor module

Output voltage

- 220Vac/380Vac
- 230Vac/400Vac
- 240Vac/415Vac

Cabinet

- Standard cabinet: 1800*800*600
- Network cabinet: 2100*800*600

Technical data

Model	HM 1110~HM 33210		
Capacity (kVA/kW)	10K/20K/30K/40K/50K/60K	60K/80K/100K/120K/140K	90K/120K/150K/180K/210K
Module Capacity (kVA/kW)	10KVA/8KW	20KVA/16KW	30KVA/24KW

Input

Input voltage	220/230/240VAC or 380V/400V/415V single phase or three phase
Input frequency	50/60Hz
Frequency window	45-65HZ
Input current THD	<3%
Power factor	>0.99

Bypass

Bypass voltage	220/230/240VAC or 380V/400V/415V single phase or three phase
Bypass overload capability	150%, long time operation

Battery

Battery voltage	±384Vdc
Battery Number	32pcs per group
Charge Current	10A per module

Output

Output voltage	220/230/240VAC; 380V/400V/415V±1%, single phase or three phase
Output Frequency	50±0.01Hz or 60±0.01Hz
Power factor	0.8
Crest factor	3:1
Voltage THD	THD<2%(linear load), THD<5%(nonlinear load)
Overload Capability	125%, transfer to bypass after 10 minutes; 150%, transfer to bypass after 1 minute; >150%, transfer to bypass after 200ms

System

System efficiency	>96%
Display	LCD+LED, Touch screen and keyboard
Interface (Communication Ports)	RS232, Rs485, Dry contacts, SNMP card, EPO, Generator interface
Environment	Operation temperature: 0~40°C; Storage temperature: -25°C~70°C; Relative humidity: 0~95% (non-condensing)
Noise (dB)	<50dB
Inverter Module (W*D*H mm)	10KVA: 564*586*92 (Standard 2U); 20KVA: 564*586*184 (Standard 4U); 30KVA: 564*586*276 (Standard 6U)
Display Module (W*D*H mm)	564*586*92
Bypass Module (W*D*H mm)	564*586*92
Cabinet (W*D*H mm)	50KVA: 1084*600*673mm; 100KVA:1552*600*673 Standard cabinet: 1800*600*800 10~60KVA; Network cabinet: 2000*600*800 60~210KVA
Net Weight (Kg)	10KVA Inverter Module: 15; 20KVA Inverter Module: 30; 30KVA Inverter Module: 40

Low Frequency Online UPS

MF series (10KVA-400KVA)

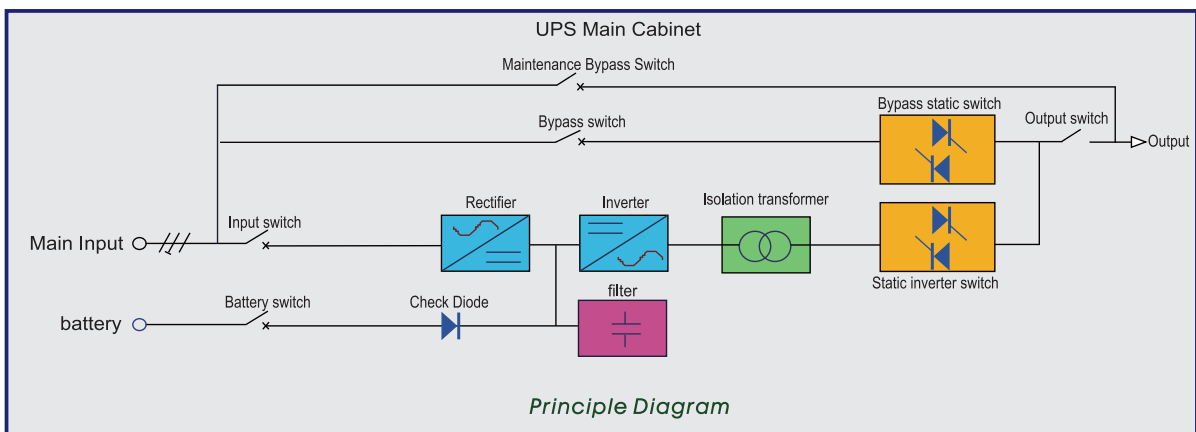
MF series 10-400KVA UPS a true on-line double-conversion technology three-phase input / three-phase output low frequency UPS system, it is an ideal for protection and power quality where suitable for electronic power, chemical, medicine, steel, traffic, semiconductor, finance, insurance, telecom and industry automation devices etc.

MF series 10-400KVA UPS is designed an isolated transformer resists high impulse current with extra load compatibility and comprehensive dual protection function provides high system reliability.



Features

- True online double conversion completely isolates the load from various grid faults and pollution
- Digital signal processing using latest DSP technology provides high performance and system reliability
- Output transformer between UPS and critical load isolates
- Extra-wide input voltage and frequency range with 12-pulse rectifier adapts adverse grid environment
- Intelligent battery management with directly checking and setting charge and discharge of battery on LCD extends battery life
- Unique dual protection function with hardware and software provides comprehensive protections
- Advanced distributed parallel technology allows N machines in parallel without centralized bypass cabinet
- DC cold start function offers emergency on ups by battery without utility power
- Large touch LCD display monitor various information at a glance
- Multiple monitoring and alarm functions available
- Top and bottom cabling available without input cabling cabinet
- Full front access with modular components design for easy maintenance



Technical data

Model	MF 1110~MF 33400													
Capacity	10KVA	20KVA	30KVA	40KVA	50KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	300KVA	400KVA	
Type	True Online Double Conversion													
Input														
Voltage Range	220/230/240Vac			300/400/415Vac(-30%~+30%)										
Frequency Range	50/60Hz													
Power Factor	>0.95													
Bypass														
Voltage Range	220/230/240Vac			380/400/415Vac(-30%~+15%)										
Frequency Range	50/60Hz													
Phase	1ph+N			3ph+N										
Transfer Time	0ms													
Overload Capability	<150%, normally running													
Battery														
Battery Voltage	348/360Vdc(29~30pcs*12Vdc)													
Charging Current	1~100A (setting by battery capacity)													
Output														
Phase	1ph+N			3ph+N										
Voltage Range	220/230/240Vac			300/400/415Vac										
Frequency Range	50/60Hz													
Power Factor	0.8													
THD	<2% (linear load); <4% (non-linear load)													
Overload Capability	<105% normally running;105%~125% 10min; 125%~150% 1min; 150% 1ms													
System														
Efficiency	91%	91%	92%	92%	92%	93%	91%	93%	94%	94%	95%	95%	95%	
Communication Interface	RS232, RS485, SNMP Card, Dry Contact													
Cooling	Fan Cooling													
Operating Temperature	0~40°C													
Humidity	0-95% non-condensing													
Storage Temperature	-25°C~70°C													
Altitude	<4000m													
Noise Level	<50dB		<60dB			<65dB					<70dB			
Net Dimension(W*D*H mm)	380*800*1200		450*1000*1400		750*750*1600		1200*900*1700			1500*1200*1800		1800*1250*1800		
Net Weight(kg)	115	180	260	350	550	650	850	950	1100	1350	1550	1800	2000	

Line Interactive UPS

XPH (0.5KVA-6KVA)

XPH series UPS is an economical line-interactive UPS that offers full-featured power protection for applications requiring good quality power. XPH series UPS offers unique features and extraordinary load performance not normally found in similar products.

XPH series UPS is a line-interactive UPS that provides remote ON/OFF power function, intelligent battery management and perfect protections to achieve nobody on duty at site.



Features

- Pure sine wave output
 - System efficiency high up to 90%
 - Wide AC input range, 145V to 275V, avoid transfer to battery mode, adaptive to adverse utility power grid environment
 - Powerful load capability supports air conditions, motor and other capacitive or inductive loads
 - Intelligent RS232 communication port, friendly digital remote monitoring (for B type)
 - Advanced CPU control provides high performance
 - Highly accuracy and fully automatic voltage regulator make sure loads work safely.
 - Complete fault protection functions, overload, short circuit, overvoltage, undervoltage, overtemperature protections
 - Friendly LED display (standard) or digital LCD display (optional)
 - Δ/Y isolation transformer output
 - Compatibility with diesel generator offer more reliability
 - Auto restart function achieves unattended at site (optional)
 - Intelligent battery management prolong the battery life
-
- Ideally Suited For
 - Small/medium home equipment
 - Office and public device
 - Home lighting system
 - Fabrication and control system
 - PC, workstation and Point-of-Sale (POS)

Technical data

Model	XPH 500~6000								
Rate Power	500VA	700VA	1000VA	1500VA	2000VA	3000VA	4000VA	5000VA	6000VA
Input									
Input Voltage (Vac)	145-275Vac								
Input Frequency(Hz)	50Hz±3%								
Output									
Output Voltgace (Vac)	220Vac±3%								
Output Frequency(Hz)	50Hz±1%								
Battery									
Battery Voltage (Vdc)	12	24	48	96					
Cut Off Voltage (Vdc)	10	20	40	80					
Over Voltage (Vdc)	14.5	29	58	116					
No Load Current (A)	1.2A	1.0A	0.8A	0.5					
Charging Current(A)	Standard:10A; Max. 15A (optional)								
System									
Efficiency	90%								
AVR Output Voltage (Vac)	AVR 220Vac±10%								
Waveform	Pure Sine Wave								
Transfer Time	< 5ms								
Display Type	LCD								
Information	Battery Capacity, AC Input Voltage, Output Voltage, Load								
Protection	AC input Overvoltage, DC input Low voltage and Surge protections								
Overload Capability	100-120% 30s; 120-300% 10s; short circuit<150ms								
Cooling	Fan Cooling								
Communication	RS232								
Nosie	<60dB								
Operation Temperature	-5~40°C								
Storage Temperature	-15~+50°C								
Humidity	0-90% non-condensing								
Operation Altitude	0-3000m (Derated 1% per 100m above 1000m)								
Storage Altitude	0~15000m								
Net Dimension(W*D*H mm)	460*210*305			580*260*410			645*315*550		
Net Weight(kg)	7	8	9	10	18	21	29	34	39

ELECTWAY

Offline UPS

XPE (0.4KVA-2KVA)

XPE offline series 0.4-2KVA UPS ideally suited for the PC, route, POS and telecom device of enterprise, government, scientist, traffic, education. It adopts advanced CPU control technology, timely response and active for the outage, low and high voltage, surge, transients and spikes. It features auto-restart, auto stabilizer voltage and wide input voltage functions Can be applied to all kinds of complex electrical environment.

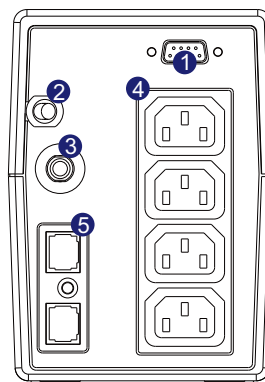


Features

- Stabilizer voltage output
- XPE series is a new generation UPS, ideally suited for PC, small workstation, features automatically stabilizer voltage output and filter various electronic interference.
- Auto-restart function
- When the utility power disconnected, UPS shut down and turn to battery mode; when the utility power recovery, UPS automatically turn on. It provides unattended power management.
- Wide input voltage frequency
- Input voltage range: 162VAC~290VAC; frequency range: 45Hz~55Hz deliver reliability and safety power output. It can connect the diesel generator for more choose power input.
- Load protection
- Short circuit protection functions protect your load.
- Self-test
- When it turns on, system check inverter and battery, give an accurate, reliable judgment, to enhance the security of the load.
- More convenient management functions
- Simple panel and easy to operate
- Turn on by DC/battery, anytime and anywhere to facilitate your use.
- High quality batteries provide longer back-up time.
- User-friendly design
- The ultra-quiet design gives you a quiet working environment

Optionals

- Optional LED and LCD display window
- Selectable INLET and IEC input socket
- Output sockets INDIA, GER, UK, IEC, NEMA are optional



- ① Communication port
- ② Input Plug
- ③ Input Fuse
- ④ Output Socket
- ⑤ Network/Fax/Modem Surge Protection

Technical data

Model	XPE 400	XPE 600	XPE 800	XPE 1000	XPE 1200	XPE 1500	XPE 2000
Rated Power	400VA	600VA	800VA	1000VA	1200VA	1500VA	2000VA

Input

Phase	L+N
Input Voltage	(81-134)/(89-145)/(162-268)/(170-280)/(177-290)Vac
Input Frequency	50/60Hz(45~65)Hz
Input Protections	Fast fuse

Output

Output Voltage	110/120/220/230/240Vac±10%
Output Frequency	same with utility power
Output Power Factor	0.6
Transfer Time	1~6ms; max 10ms

Battery

Voltage	12Vdc	24Vdc
Turn On Voltage by DC	11.0±0.5Vdc	22.0±1Vdc
Float Voltage	13.7±0.5Vdc	27.5±0.5Vdc
Charge Current	<1A	
Charge Time	90% after charging 6~8 hours from empty	

System

Efficiency	>95%						
Communication	RS232 +USB, RJ45/RJ11(optional)						
Noise (1m front)	<45dB						
Operation Temperature	0°C to +40°C						
Humidity	0~90% non-condensing						
Storage Temperature	-20°C to + 50°C						
Altitude	1000m						
Net Dimension(W*D*H mm)	100*287*142						
Net Weight(kg)	3.5	4.5	4.9	5.5	5.5	9.0	12.5

Optional Inlets and Outlets (can be customized on demand)

