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EVERON UPS

Green and saving energy, Never interruptible



Founded in 2003, Shenzhen JFY Tech. Co., Ltd. is a professional designer, manufacturer and solutions provider in power electronics field. Awarded as National High-tech Enterprise and certified to ISO9001: 2008 international quality system, JFY has 16000m² of production plants and R&D laboratories with more than 100 professional engineers in Shenzhen headquarter, more than 20 service centers in domestic and overseas areas. As a leading supplier with best products and services, JFY always offers customers the high cost-effective products and integrated energy solutions with plentiful design and production experiences. The products cover a wide range of Solar Inverters (1.5KW~1MW), UPS, Telecom Power Supply, Hybrid Power System, etc. Our products have been sold to more than 50 countries and areas. Their stable operation and excellent performance have been universally recognized by users across the world.

UPS (uninterruptible power supply) / Telecom Power Supply
Solar Grid-Connected Inverter / Solar Off-Grid Inverter

JFY is a leading and diversified manufacture expert with 10 years' experiences on professional design, production and sale. JFY customizes various products to meet different international standards and specific clients' requests. Our products have been widely used in different fields, including electric power, telecommunication, aviation, traffic, post service, public security, customs, government and other entities.

Company Profile

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Contents

- 01 Online UPS 1:1 / XPC Series (1KVA~3KVA)
- 03 Online UPS 1:1 / XPC Series (6KVA~10KVA)
- 05 Online UPS 3:1 / XPC Series (10KVA~20KVA)
- 07 Online UPS 3:3 / HF Series (20KVA~80KVA)
- 09 Modular Online UPS 3:3 / HM Series (10KVA~210KVA)
- 11 Low Frequency Online 3:3 / MF Series (10KVA~400KVA)
- 13 Line Interactive UPS / XPH Series (0.5KVA~7KVA)
- 15 Line Interactive UPS / XPE Series (0.4KVA~2KVA)
- 17 Home Inverter / XPR Series (1200VA~2400VA)
- 19 Solar Hybrid Power / XPI Series (0.5KVA~7.0KVA)



Online UPS 1:1
XPC Series (1KVA~3KVA)

Control Panel



- LED Indicators
- LCD Display
- Functions Button
- Test & Alarm
- ON/OFF

Features

- True online double conversion technology
- Advanced IGBT rectifier
- Settable charge current on LCD (long backup model)
- Generator compatible
- Input neutral and live wires reverse detection
- Self-testing when UPS startup
- Three segment charging mode to increase battery service life
- Intelligent slot(optional) : USB&RS232 or SNMP card
- Optional EPO function

Rear Panel

1KVA

2KVA

3KVA

1. Communication port
2. Intelligent Slot
3. Cooling Fan
4. External Battery Socket (for long backup time UPS only)
5. Network/Fax/Modem Surge Protection
6. Output Socket
7. Input Plug
8. Output Terminal

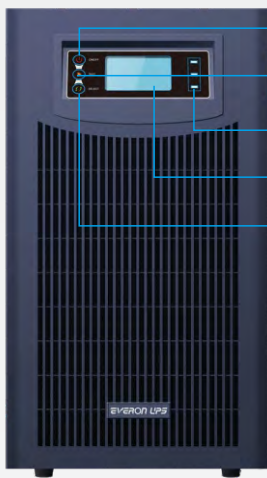
Technical data

Model	XPC 1101	XPC 1101L	XPC 1102	XPC 1102L	XPC 1103	XPC 1103L
Rated Power	1KVA/800W		2KVA/1600W		3KVA/2400W	
Input						
Phase	L+N+G					
Input Voltage	(110 ±5 ~ 296 ±5)Vac					
Input Frequency	(45 ±0.5 ~ 65 ±0.5)Hz					
Input PF	>0.98					
Bypass voltage	(80 ±5 ~ 286 ±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	RS232+Intelligent Slot					
Noise (1m front)	<45dB		<50dB			
Operation Temperature	0°C~40°C					
Humidity	0~95% Non-condensing					
Storage Temperature	-40°C~50°C					
Altitude	1000m					
Net Dimension (W*D*H mm)	145*360*210			195*455*330		
Net Weight (kg)	12	6.5	27	16	33	16



Online UPS 1:1
XPC Series (6KVA~10KVA)

Control Panel



- ON/OFF
- Test & Alarm
- LED Indicators
- LCD Display
- Functions Button

Features

- Full digital control with DSP
- N+X parallel redundancy
- True online double conversion technology
- Advanced IGBT rectifier
- ECO and optional EPO function
- Settable charge current on LCD (long backup model)
- Generator compatible
- Input neutral and live wires reverse detection
- Intelligent slot (optional): AS400 or SNMP card
- Isolation transformer box (optional)

Rear Panel

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 ~ 275 ±5)Vac			
Input Frequency	(46 ±0.2 ~ 54 ±0.2)Hz			
Input PF	>0.99			
Bypass voltage	(187 ±5 ~ 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	105±5%<Load<125 ±5%: 1min to bypass; 125 ±5%<Load<1355%: 30s to bypass; >135 ±5%: 0.1s 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~40°C			
Humidity	0~95% Non-condensing			
Storage Temperature	-40°C~50°C			
Altitude	1000m			
Net Dimension (W*D*H mm)	248*500*616	240*500*460	248*500*616	240*500*460
Net Weight (kg)	57	20	59	21



Online UPS 3:1

XPC Series (10KVA~20KVA)

Control Panel



- ON/OFF
- Test & Alarm
- LED Indicators
- LCD Display
- Functions button

Features

- Full digital control with DSP
- N+X parallel redundancy
- True online double conversion technology
- Advanced IGBT rectifier
- ECO and optional EPO function
- Settable charge current on LCD (long backup model)
- Generator compatible
- Input neutral and live wires reverse detection
- Intelligent slot (optional): AS400 or SNMP card
- Isolation transformer box (optional)

Rear Panel

15/20KVA



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

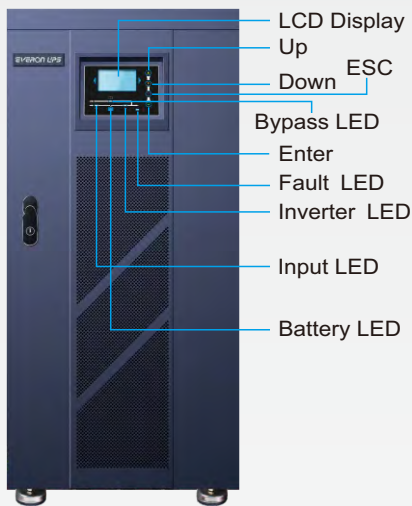
Technical data

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 \pm 1%		
Output Power Factor	0.8		
Output Frequency	Normal Mode: Same with Utility Power; Battery Mode: 49.9~50.1Hz		
THD	THD<2% (linear Load); THD<5% (Non-linear load)		
Transfer Time	Normal to Battery mode: 0ms Bypass Mode to Normal: 0ms		
Overload Capability	105 \pm 5% \leq Load \leq 125 \pm 5% 60s to Bypass; 125% \leq Load \leq 135 \pm 5% 30s to Bypass >135% 0.1s to bypass		
Battery			
Voltage	192Vdc		
Charging voltage	220Vdc		
Overvoltage	230Vdc		
Charging Current	2A/4A (L Type)		
System			
Efficiency	>90%		
Communication	LCD Display+RS232+Intelligent Slot		
Restart Function	After Turning Off Due to Cut Off Voltage of Battery, UPS will Restart when Voltage is in (302 \pm 5 ~ 437 \pm 5Vac) and Frequency is in (47~53Hz)		
Noise (1m front)	<45dB		<50dB
Operation Temperature	0°C~40°C		
Humidity	0~95% Non-condensing		
Storage Temperature	-40°C~50°C		
Altitude	1000m		
Net Dimension (W*D*H mm)	248*500*616		
Net Weight (kg)	27	35	35



Online UPS 3:3
HF Series (20KVA~80KVA)

Control Panel



- LCD Display
- Up
- Down
- ESC
- Bypass LED
- Enter
- Fault LED
- Inverter LED
- Input LED
- Battery LED

Features

- N+X parallel redundancy
- Full digital control with DSP
- Advanced IGBT rectifier
- Settable charge current on LCD
- Support generator input
- Self-testing when UPS startup
- EPO function
- Cold start
- Complete communication: RS232/RS485/dry contact/SNMP
- Intelligent slot (optional): AS400 or SNMP card
- Isolation transformer box (optional)
- Temperature sensor (optional)
- Power feedback module (optional)

Rear Panel



20~40KVA

1. RS232 Communication port
2. AS400 Communication port
3. EPO Communication port
4. RS485 Communication port
5. Service Communication port
6. Parallel Communication port
7. Parallel Communication port
8. External Battery port
9. Intelligent slot
10. Expanded Slot
11. Fans

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 (-45% ~ +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 \pm 1%
Frequency Range	50Hz \pm 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°C				
Humidity	0~95% Non-condensing				
Altitude	<4000m				
Noise Level	<50dB	<60dB	<65dB		
Protection Level	IP20				
Storage Temperature	-25°C~70°C				
Net Dimension (W*D*H mm)	420*646*956	470*713*1160	600*800*1850		
Net Weight (kg)	80	120	120	282	306



Modular Online UPS 3:3 HM Series (10KVA~210KVA)

Options

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

Cabinet

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

Modules

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

Output voltage

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

Features

- Modular design, efficiency up to 95.5%
- N+X redundant technology, hot-swap, flexible scale up and maintenance in 2 minutes
- True online double conversion technology
- Full digital control with DSP
- Advanced IGBT rectifier
- Share battery bank
- Balanced input/output current technology
- Adapt continuum current mode (CCM), decrease the disturb to utility power grid (RFI/ EMI)
- Easy to maintenance and operate
- Optimized battery group, the quantity of battery: 30~40 pieces (optional)
- Complete communication: RS232/RS485/dry contact/SNMP
- Centralized static bypass technology
- EPO

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	±216Vdc
Battery Number	30~40pcs
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	105%~130%, 10 minutes; 130%~150%, 1 minute; >150%, 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: -20°C~70°C; Relative Humidity: 20~93% (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: 35

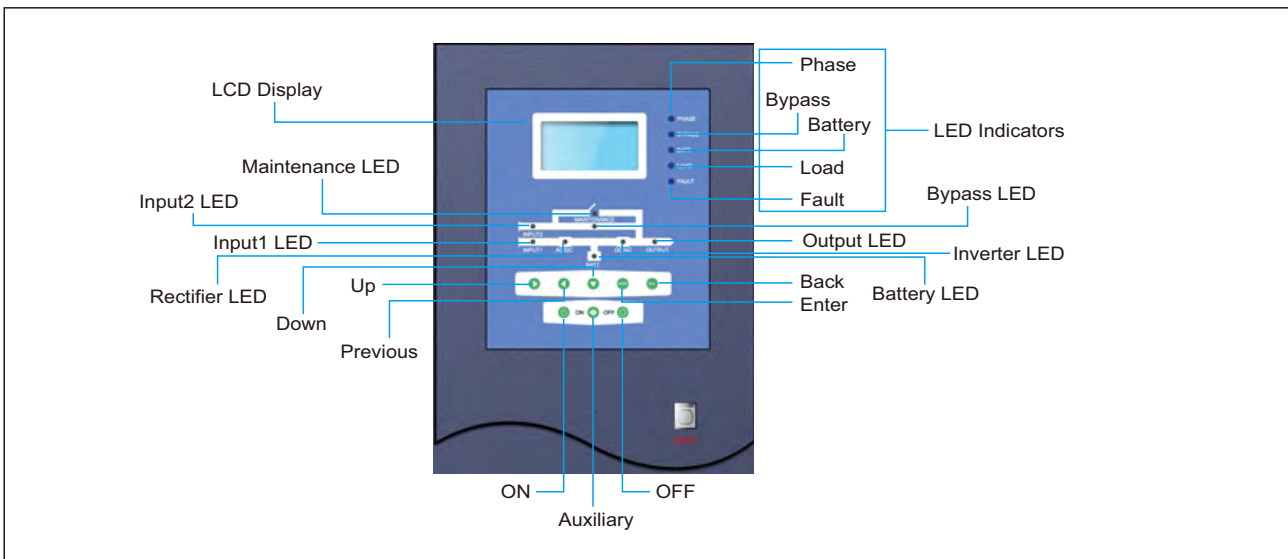


Low Frequency Online 3:3 MF Series (10KVA~400KVA)

Features

- Built-in output isolation transformer
- N+X redundant technology
- Advanced IGBT rectifier
- Built-in 12 pulse rectifier and filter for more than 60kva ups
- 100% unbalance load capability
- Intelligence battery management system
- DC Start
- Special ventilation from front to top for small space
- Settable charge current on LCD
- Support generator input
- Self-testing when UPS startup
- EPO
- Optimized battery group, the quantity of battery: 29/30 pieces (optional)
- Intelligent slot (optional): AS400 or SNMP card

MF series 80~120KVA



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	380/400/415Vac (-25%~+25%)													
Frequency Range	50/60Hz													
Power Factor	>0.95													

Bypass

Voltage Range	380/400/415Vac (-25% ~ +15%)													
Frequency Range	50/60Hz													
Phase	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	3ph+N													
Voltage Range	300/400/415Vac													
Frequency Range	50/60Hz													
Power Factor	0.8													
THD	<2% (linear load); <4% (Non-linear load)													
Overload Capability	100%~150% normally running; 150%~170% 1min; 170% 10s													

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			1000*800*1700			1500*1200*1800		1800*1250*1800	
Net Weight (kg)	115	180	260	350	550	650	850	950	1180	1350	1550	1800	2000			



Line Interactive UPS
XPH Series (0.5KVA~7KVA)

Control Panel

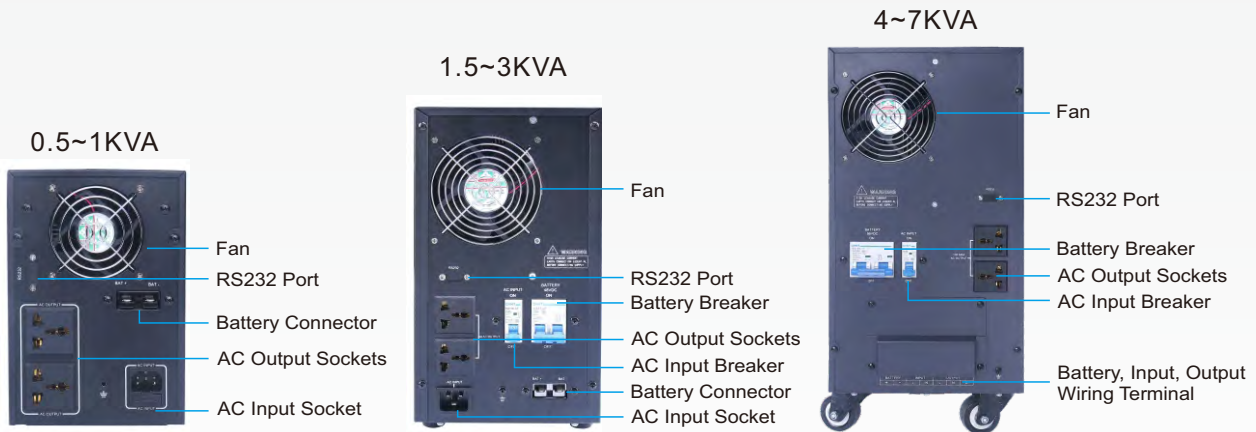


- LED Indicators
- LCD Display
- ON
- OFF
- Functions Button

Features

- Pure sine wave output
- Built-in output isolation transformer
- Wide input voltage window
- Support generator input
- AVR function
- Auto restart function
- Remote control
- Large LCD display

Rear Panel



Technical data

Model	XPH 500~7000										
Rate Power	500VA	700VA	1000VA	1500VA	2000VA	3000VA	4000VA	5000VA	6000VA	7000VA	
Input											
Input Voltage (Vac)	180~275Vac						180~250Vac				
Input Frequency(Hz)	50Hz ±3%										
Output											
Output Voltage (Vac)	110/220Vac ±3%				220Vac ±3%						
Output Frequency(Hz)	50Hz ±1%										
Battery											
Battery Voltage (Vdc)	24			48			96				
Cut Off Voltage (Vdc)	20			40			80				
Over Voltage (Vdc)	30			60			120				
No Load Current (A)	1.0A			0.8A			0.5A		0.8A		
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	105~120% 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)	488*212*310			603*325*470				680*380*565			
Net Weight (kg)	7	8	9	10	18	21	33	38	42	50	



Line Interactive UPS
XPE Series (0.4KVA~2KVA)

Control Panel

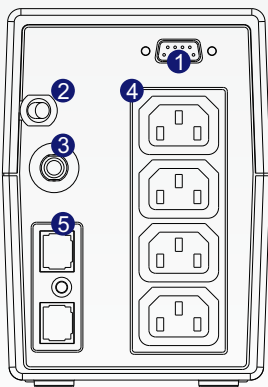
XPE Series (LED)



XPE Series (LCD)



Rear Panel



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

Features

- Built in AVR function
- Cold start
- Wide input voltage range
- Smart RS232/USB interface
- RJ45/RJ11 modem/network surge protection
- Compatible with generator set
- LCD or LED panel for optional
- Auto charging at off mode
- Auto-restart function
- Multiple power outlets

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 $\pm 10\%$
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 ± 0.5 Vdc	22.0 ± 1 Vdc
Float Voltage	13.7 ± 0.5 Vdc	27.5 ± 0.5 Vdc
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 ~ +40°C						
Humidity	0~90% Non-condensing						
Storage Temperature	-20°C ~ +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)

 5-15R	 5-15P	 5-20R	 5-20P	 IEC-320-C19(female)	 IEC-320-C20(male)
 IEC-320-C13(female)	 IEC-320-C14(male)	 L5-20R	 L5-20P	 L6-20R	 L6-20P



Home Inverter XPR Series (1200VA~2400VA)

XPR series is a home inverter built-in high efficiency inverter and large power charger to delivery stable power output in a compact size. When utility power is available, inverter works at rectifier mode and charges the batteries; when utility power is outage, inverter works at battery mode, the battery delivery power for the load.

XPR1200/2400 with high efficiency to convert DC power into AC power and reliable power output for the following applications provide continuous and stable power output by 720 watts / 1440 watts.

Features

High Reliability

- Built-in AC charger and inverter
- Fully automatic restart operation
- Overvoltage / undervoltage / short circuit / overload / over-temperature/battery poles anti-reverse protection
- Mains and inverter switch quickly
- Allowed to cut off DC when the power is on, automatically switch to bypass and does not affect the supply to the load for convenient battery maintenance and replacement

High Charging Current: 20 a for 1200va&2400va

High Efficiency, Minimize Charging Loss

- Advanced technology to optimize battery life
- The battery voltage is too high or too low, the inverter shutdown output and automatic recovery if the battery voltage is back to normal

Load Compatibility

- Inverter shutdown output due to overload, after eliminating the overload, inverter will automatically restore the output power
- Support power on without DC, you can run only the mains input. This feature allows first put into inverter to use and then install the battery

Cheap, Cost-Effective And Flexible select

- DC 12V/24V, AC 220/230/240V output
- User-friendly design, easy to install and operate
- Different outlet options

Applications

- TV, stereo, desktop or notebook computer and other home appliances
- Cars, electric cars, trains, yachts, ships
- The power outage place: homes, offices, stores
- Field operations, tourism
- Night commercial activities Location: night market, shops, stalls, farms, etc



1. Battery Connection Cover
2. Input Plug
3. Output Sockets
4. Voltage Range Switch
5. Charging Current Range Switch

Technical data

Model (XPR)	1200VA	2400VA
Rated Power	1200VA/720W	2400VA/1440W
DC Input		
Battery	12Vdc	24Vdc
Constant Charger Voltage	14.3Vdc	28.6Vdc
Floating Charge Voltage	13.7Vdc	27.4Vdc
Low-battery Alarm Voltage	10.2Vdc	20.4Vdc
Overcharge Protection	15.0Vdc	30.0Vdc
Shutdown Voltage	9.9Vdc	19.8Vdc
Backup Time	The Backup Time is up to Battery Capacity	
AC Input		
Phase	L+N	
Input Voltage	(90~290)Vac	
Input Frequency	50/60Hz (Auto Detection)	
AC Output		
Output Voltage	220/230/240Vac \pm 10% (Adjustable)	
Output Frequency	50/60Hz (Auto Sensing)	
Output Power Factor	0.6	
Overload Capability	line Mode: 110%<Load<130, 5min; >130%, Shut Down; Battery mode: 110%<Load<120, 15s; >120%, Shut Down	
Transfer Time	20ms typical	
Output Waveform	Modified Sine Wave	
System		
Efficiency	AC to DC: >95%; DC to DC: >82%	
Noise (1m front)	<55dB	
Operation Temperature	0°C ~ +40°C	
Humidity	0~90% Non-condensing	
Storage Temperature	-15°C ~ +50°C	
Altitude	1000m	
Net Dimension (W*D*H mm)	231.5*293*82.5	
Net Weight (kg)	2.22	2.37



Solar Hybrid Power

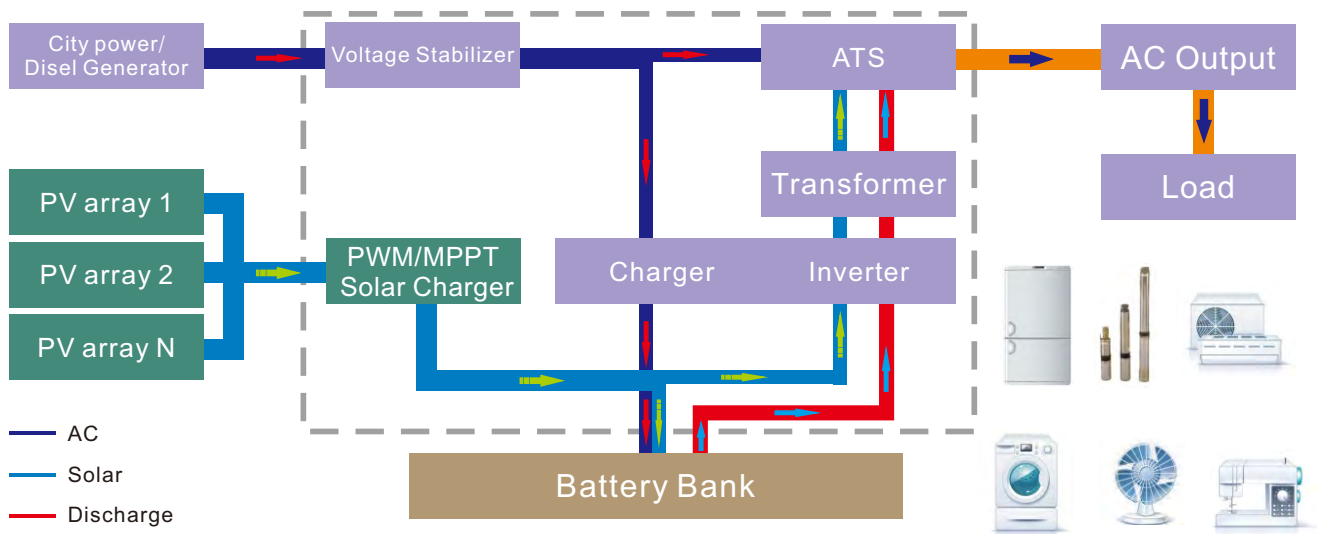
XPI Series (0.5KVA~7.0KVA)

XPI series integrate with solar inverter and charger technology, which supply economical power solution for customers. XPI can work in varies mode such as solar mode, ac main mode and battery mode. The system contains solar controller, solar inverter and charger, also compact design and light weight. XPI supply uninterruptible power for systems continuous running.

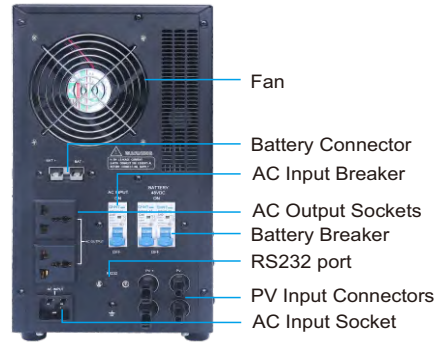
Features

- Integrated with solar charger, AC charger (optional), inverter, AC bypass switch, transformer, solar and DC battery terminals, protection breakers and LCD display
- MPP tracking technology(above 1.5KVA),offer wide input voltage, low input current, stable charging voltage and current, reduce the investment of solar panels, increase the convert efficiency up to 20-30%
- Auto-switch smoothly transfer the load to city power or inverter's output
- Auxiliary-charging could complement power to battery by city power even if PV array does not work in the raining days.
- Low frequency transformer allows to withstand high inrush load current, supports fan, pump, refrigerator, TV, air-conditioner, lamp etc
- True sine wave output
- Preferential solar charging function uses the renewable energy while city power is complementary
- The input of city power can be substituted by the input of diesel generator

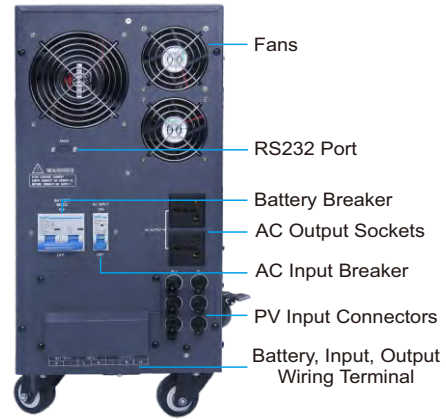
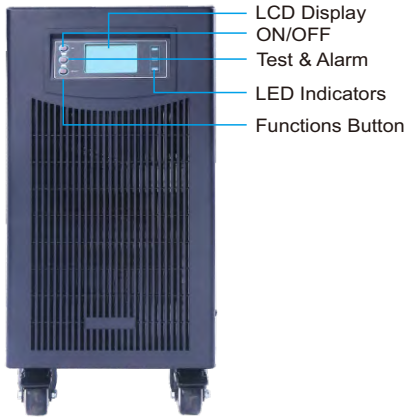
System Graph



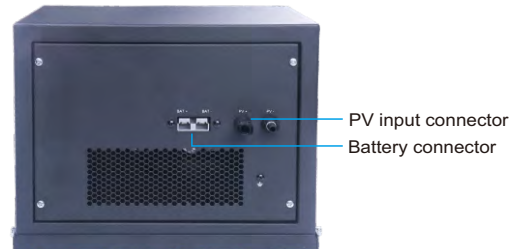
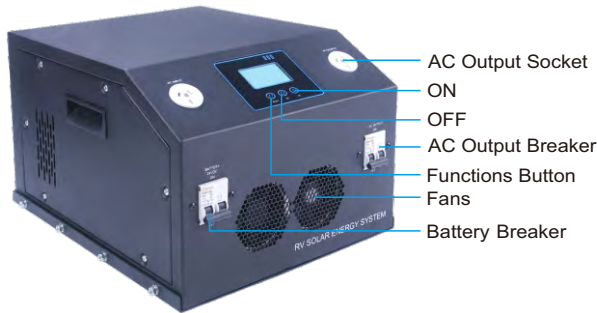
XPI 1.5~3KVA



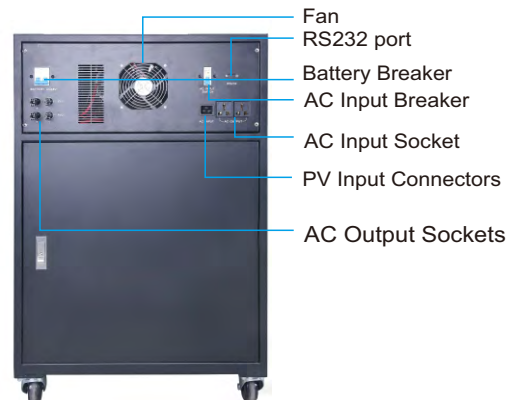
XPI 4~7KVA



XPI 0.5~1KVA with Battery



XPI 1.5~3KVA with Battery



Technical data

Model (XPI)	0.5K	0.7K	1.0K	1.5K
	XPI X.XKVA-DMS/DML/ DPS/DPL/UMS/UML/UPS/UPL			
Inverter Rating Power	350W	500W	700W	1000W
Rated Battery Voltage	24V			48V
Battery Configuration	Inside max. 200AH*2pcs/External			Inside max. 200AH*4pcs/Ext.

Solar Charger parameters

Charger Type	PWM/MPPT	MPPT
Rated PV Input Power	720/1200W	2400W
PV Input Voltage Range	30~50/30~90Vdc	70~150Vdc
Max. Solar Charging Current	30A/50A	50A
Battery float charge voltage	27.2Vdc	54.5Vdc
Battery equalization charge voltage	28.8Vdc	57.6Vdc

AC Charger parameters (optional)

City Power Input Voltage Range	175~270Vac (50Hz)/90~135Vac (60Hz)
City Power Input Frequency Voltage	50/60Hz ±3%
AC Charging Current	Standard: 10A, Max.: 15A

Inverter parameters

Inverter Output Voltage	220/110Vac±3% (optional 120/127/230Vac)	
Inverter Output Frequency	50/60Hz ±1%	
Efficiency	>80%	>85%
Overload Capability	Overload Protection: 105~120% 30s; 120~150% 10s; >150% 5s; Short Circuit, 0.1ms	
Crest factor	3 (Can Endure any Startup of Inductive Load)	
Output Wave	True Sine Wave	

Others parameters

Display	LCD+LED			
Display Content	PV Status, Battery Capacity, AC Input Voltage, AC Output Voltage, Load			
Comprehensive Protections	AC&DC Overload, Under-voltage, SPD, Short-circuit, Overcharge, Overdischarge, Over-temperature			
Cooling	High-velocity cooling fan			
Communication	RS232			
Noise	<60dB			
Operation Temperature	0~40°C			
Storage Temperature	-15~+50°C			
Humidity	0~90%, No dew			
Altitude	0~3000m (Above 1000m, Derated power 1% per 100m)			
Dimension (W*D*H mm) Bat. In/Out	365*572*980/488*212*310	615*572*980/603*325*470		
Weight (kg) Bat. In/Out	148/8	149/9	150/10	281/11

Model meaning: ① Indoor solar inverter&charger series

XPI 0.5K-D M L

① ② ③ ④ ⑤

② Capacity

③ D/U: support diesel generator

④ M: MPPT controller; P: PWM controller

⑤ S: internal battery; L: external battery

Technical data

Model (XPI)	2.0K	3.0K	4.0K	5.0K	6.0K	7.0K
	XPI_ _K-DMS/DML/ DPS/DPL/UMS/UML/UPS/UPL					
Inverter Rating Power	1.5KW	2.0KW	3.0KW	3.5KW	4.2KW	5.0KW
Rated Battery Voltage	48V			96V		
Battery Configuration	Inside max. 200AH*4pcs/External			External		

Solar Charger parameters

Charger Type	MPPT			MPPT		
Rated PV Input Power	2400W			4800W		
PV Input Voltage Range	70~150Vdc			150~300Vdc		
Max. Solar Charging Current	50A			50A		
Battery float charge voltage	54.5Vdc			109Vdc		
Battery equalization charge voltage	57.6Vdc			115.2Vdc		

AC Charger parameters (optional)

City Power Input Voltage Range	175~270Vac (50Hz) / 90~135Vac (60Hz)					
City Power Input Frequency Voltage	50/60Hz ±3%					
AC Charging Current	Standard: 10A, Max.: 15A					

Inverter parameters

Inverter Output Voltage	220/110Vac±3% (Optional 120/127/230Vac)					
Inverter Output Frequency	50/60Hz ±1%					
Efficiency	>85%					
Overload Capability	Overload Protection: 100~120% 30s; 120~150% 10s; >150% 5s; Short circuit, 0.1ms					
Crest factor	3 (can endure any startup of inductive load)					
Output Wave	True Sine Wave					

Others parameters

Display	LCD+LED					
Display Content	PV Status, Battery Capacity, AC Input Voltage, AC Output Voltage, Load					
Comprehensive Protections	AC&DC Overload, Under-voltage, SPD, Short-circuit, Overcharge, Overdischarge, Over-temperature					
Cooling	High-velocity Cooling Fan					
Communication	RS232					
Noise	<60dB					
Operation Temperature	0~40°C					
Storage Temperature	-15~+50°C					
Humidity	0~90%, No Dew					
Altitude	0~3000m (Above 1000m, Derated Power 1% per 100m)					
Dimension (W*D*H mm) Bat. In/Out	615*572*980/603*325*470			680*380*565		
Weight (kg) Bat. In/Out	289/19	291/22	35	40	45	54

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