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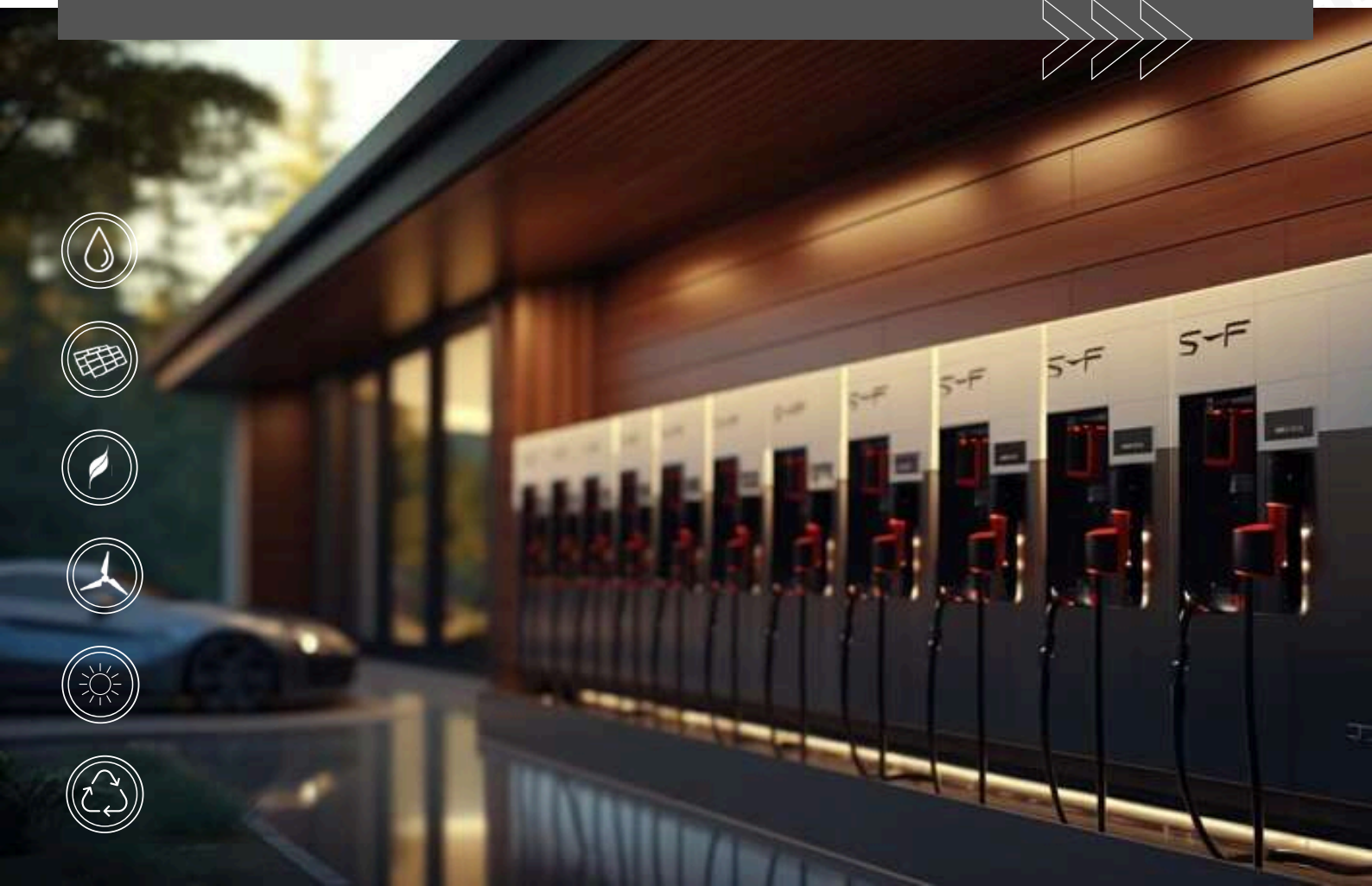
Product Catalog



Welcome to the Lifetronics

Welcome to the Lifetronics. We provide a comprehensive array of high-performance electronic products and services tailored to the diverse needs of various industries. Our offerings include top-tier equipment sales and expert repair services, positioning Lifetronics as your dependable partner for achieving operational excellence and seamless performance. Our vision is to lead in delivering innovative electronic solutions that empower industries with unmatched efficiency, reliability, and growth. Our mission is to provide high-quality products and expert services that exceed customer expectations, build long-term partnerships, and drive advancements in industrial electronics.

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Lifetronics Product Catalog

Welcome to the Lifetronics Catalog. We offer a wide range of products and services designed to meet the diverse needs of industries relying on high-performance electronics. From top-tier equipment sales to expert repair services, Lifetronics is your reliable partner in achieving operational excellence and seamless performance.

Isolation Transformer

Capacity Range upto 1500 kVA, 3 Ph

Technical Specifications:

System Connections	:	Delta/Star
Input Voltage	:	415V 3 Phase
Output Voltage	:	415V or 200V 3 Phase
Ratios	:	1:1 and 2:1
Regulation	:	Better than 3.5%
Power Factor	:	0.75 Lead to 0.75 Lag
Di-electric Strength	:	3KV for 60 sec
Insulation Resistance	:	Better than 1000Mega Ohms
Coupling Capacitance	:	0.1 PF for 80db
Leakage Current	:	Less than 20 Micro Amps
Common Mode Attenuation:	:	80 db/100 db
Construction Standards	:	As per IS 2026 Part I & II, 15 11171
Type of Execution	:	Closed Type
Operating Temperature.	:	0°C to 45° C
Type of Cooling	:	Natural air/Forced air Oil cooled (Optional)

Input	Output	Rang Available
415 V AC 3 Ph 415 V AC 3 Ph	230 V AC 3 Ph 230 V AC 3 Ph	3 KVA 1 PH and upto 1500 KVA 3PH
415 V AC 3 Ph 220 V AC 3 Ph	230 V AC 3 Ph 110 V AC 3 Ph	1 KVA 1 PH and upto 50 KVA 3PH

Eliminates stresses that come from normal electrical transients Meet stringent clean power requirements of the sophisticated/ Sensitive equipments
Reduces the effects of power line problems like noise, Spikes, Surges, Transients and Neutral to minimum

Most Suitable for

- CNC Machines
- Textile Machineries
- Oil & Vanaspathi Plants
- Bio Medical Equipments
- Cell Phone Networks
- Large Computer Installations
- Printing Machineries
- Scientific Equipments
- Garment Equipments etc and many more.

DSP Controlled Servo Stabilizer (Single Phase)

Capacity Range upto 25 kVA, 1 Ph

Technical Specifications

Input Voltage Range	:	170-270V AC, 50Hz
Output Voltage	:	230V AC 50 Hz1 Phase
Operating Frequency	:	47 to 53 Hz
Output Regulation	:	+1%
Correction Speed	:	35V/sec
Line Regulation	:	+1%
Load Regulation	:	+1%
Wave-form Distortion	:	Nil
Power Factor Effect	:	Nil
Output Wave-form	:	True reproduction of input
Type of Cooling	:	Natural Air-cooled
System Construction	:	As per 15:9815
Efficiency	:	98.5%
Response Time	:	10 milli sec.
Servo Motor Drive Motor	:	rugged at step synchronous
Enclosure		IP32

Protections

High Voltage Protection, Low Voltage Protection } with Relay / Contactor
Overload Protection, Short Circuit Protection } with MCB

Indication on Front Panel

- Input ON
- Output ON
- Output CUT-OFF
- Input LOW
- Input HIGH
- 0-300 V 72 sq. mm analog meter to read output voltage

Capacity	Width	Depth	Height	Weight/Kgs
1 KVA	280	310	300	16
2 KVA	280	310	300	18
3 KVA	300	430	300	28
5 KVA	300	430	300	33
7.5 KVA	360	470	310	55
10 KVA	360	470	310	60
15 KVA	440	470	800	100

Input Connection

- 1 & 2 Kva - Power Card with Plug Top 3 KVA to 10 KVA with
- Connectors Above 10 KVA nut & bolt termination

Output Connection

- 1&2 KVA-Sockets
- 3 KVA to 10 KVA with Connectors
- Above 10 KVA nut & bolt termination

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DSP Controlled Voltage Stabilizer 3 Phase Air & Oil Cooled

Capacity Air Cooled 250 KVA, Oil Cooled 3000 KVA

Provides perfectly stable output even under severe conditions of unbalance Voltage conditions. Ideal to Protect the electrical and electronic equipments from high and low voltages.

Input Voltage Range	: 300-460V/340-480V/360-460V AC 3 Ph
Output Voltage (3 Ph)	: 415V AC
System	: Unbalanced 4 wire: RYBN
Connections	: Star
Operating Frequency	: 47 to 53 Hz
Output Voltage Regulation	: +1% (No Load)
Output Voltage Regulation	: +1% (Full Load)
Overload Capacity	: 120%
Correction Rate	: 60/30/25V per Sec-3 Phase
Waveform Distortion	: Nil
Output Waveform	: True Reproduction of Input
Insulation	: Class F
Short Circuit Period & Percentage	: 300% for 250 milli sec
Normal Operation Temperature	: 0°C to 45° C
Climate Conditions	: 90% Rh Max. Non Condensing at 35°C
Type of Cooling	: Natural air cololed up to 600 KVA
Mode of System	: Fully Automatic
System Construction	: As per IS: 9815-1994

Sailent Features

- Quick response time 10 milli sec (half a cycle)
- Very high efficiency above 98%
- Excellent regulation as high as +/- 0.5% "Micro Controller" controlled system
- Wide input range of operations & high speed of correction

Metering On LCD Display

- 3ph Input voltage ph to ph and ph to Neutral
- 3ph Output voltage ph to ph and ph to Neutral
- System Frequency
- Output Current on each phase

Protections

- Single Phasing Prevention
- Input Short Circuit Protection with MCB/MCCB
- Input Over Load Protection with MCB/MCCB
- Output Low Voltage Protection
- Output High Voltage Protection

Indications

- Mains input on 3 LED Indications,
- 3ph output on indication

Indications in LCD Display

- Input High and Input low
- Output on Indication
- Output high cutoff and output Low cutoff

Programmable Parameters

- Output voltage set (210-245V)
- Output Low Voltage Cutoff
- Output High Voltage Cutoff
- Input Low on LCD Display
- Input High on LCD Display
- Sensitivity/Regulation
- Over Load Cutoff
- CT full scale

Programmable Controls

Display Scrolling - Auto / Manual
Start/Stop Buttons

Menu/Start/Stop/Reset / Log Button Very Important For CSD Analysis Problems Optional: Out Door Model, Residential Model Available

Programmable Control Timings

- Over load Cutoff Time
- Auto Restart Time
- On & Of Delay Time
- Data Log: Last 100 fault events log with Date & Time stamp and works on FIFO basis.
- Residential Model also available

MOBEL	LSS75	LSS100	LSS250	LSS500	LSS750	LSS1000	LSS2000	LSS3000
Rated Capacity	75KVA	100KVA	250KVA	500KVA	750KVA	1000KVA	2000KVA	3000KVA

Online UPS DOU DALTA SERIES

1kVA 10KVA (1:1)

High Charging capability: 2A/4A/6A/8A/10A/12A selectable (standard), 14A/16A/18A/20A/22A/24A selectable (options) Standard configuration with output isolation transformerSuperior protection (surge, short-circuit, overvoltage, undervoltage, overcharge, reverse battery protection etc.) Advanced communications: RS232 and USB ports (standard), SNMP, dry contacts and Rs485 (options) Other Options (parallel kit, input isolation transformer, bypass isolation transformer and harmonic suppressor) Static Bypass Switch Available, Manual Bypass Optional

DSP (Digital Signal Processors) Technology
Suitable for all kinds of loads (resistive, inductive and non Linear loads etc)
High overload capability (upto 150%)
Bypass dual DSP control design to enhance more reliability
Supports dual input, hot standby in series
Redundant & parallelable with advance parallel current-sharing control technology
Cold start and mains start function
Generator Compatible
IGBT Inverter and Rectifier

Rear Panel

- EPO
- USB
- Rs232
- Parallel Port (Optional)
- 6NMP (Optional)
- fan
- Breaker
- Terminal
- Battery Connector
- Fuse
- Input

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Online UPS DALTA SERIES

Specificaons

MODEL	DALTA1K	DALTA2K		DALTA3K		DALTA5K	DALTA6K	DALTA10K
Capacity	1kVA/kW	2kVA/kW		3kVA/kW		DALTA5K	DALTA6K	DALTA10K
Nominal Voltage	220/ 230 / 240 VAC (1Ph + N + PE, 3 wire)							
Operating Voltage range	110V~ 300V AC @ 50% Load/140V - 300VAC @ Full Load							
Operating Frequency range	50 / 60 Hz ± 10% (Auto Sensing)							
Power factor	>0.99							
Output Voltage/Power factor	220 / 230/ 240 Vac/ ± 1% / 1 Unity Pf							
Output frequency	Auto sensing 50/60 Hz ± 1 ~ 10% Sync Mode (Configurable), 50/60 Hz ± 1 Hz Battery mode							
Harmonic distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)							
Crest factor	3:1							
Efficiency	Up to 94% Dual Conversion Mode, 99% ECO mode							
Waveform	Sinusoidal							
BATTERIES								
DC voltage	36V	48V	72V	96V	72V	96V	120-240V Configurable	
Charger	6.5 - 13A Configurable							
Typical Recharge Time	8 - 12 Hours (90% of full capacity)							
SYSTEM FEATURES								
LCD Indications	Input Voltage/Frequency, Output Voltage/Frequence, Battery Voltage, Load Watt/VA and %, Inverter Temperature, Operation Mode such as "On Line", "ON Batt" or On "Bypass", Fault Codes, Battery & Load Bar graph,Input Current, Output Current, Battery current							
LED Indications	Normal Operation, Bypass, Abnormal, Fault and Battery Mode							
Alarms/Protection	Batt. Low, DC High, Inverter Under/Over Voltage, UPS over Load, Short Circuit, Fan Failure and UPS fault,Transient surge, Input & Output Fuse.							
Overload Capability	≤ 125% for 10 min, >125-150% for 1 min, >150% for 200ms							
Transfer Time	AC to Battery: 0ms, Inverter to Bypass : 4ms (Typical)							
ENVIRONMENTAL								
Temperature	Operating: 0 ~ 45°C, Storage:- 10°C ~ 55°C							
Humidity/Altitude	0~ 95% RH (non-condensing) / <1500M							
Noise / Cooling	< 55 Db / Forced air Cooling							
PHYSICAL								
Dimensions (W x D x H) (mm)	144x400x215	192x469x399				220x481x438		
Net weight (kg)	6	10.7	10.8	11.2	10.8	11.2	17	18	20
STANDARD								
Quality	ISO 9001:2015,ISO 140001:2015, BIS							
Safety/ IP Rating	IEC/EN62040-1/ IP20 / Ip21							
EMC/Performance	IEC/EN62040-2; IEC/EN62040-3, Complying to CE							
COMMUNICATION INTERFACES								
Standard	RS-232							
Optional	SNMP / ModBus / Dry Contact / USB / RS-485							
Monitoring Software	NetAgent utility v5.8/UPSilon 2000							

Specifications are subject to change without any prior notice.
Note: With Isolation Transformer, UPS Dimensions & Weight will be Changed.

Online UPS LXi800

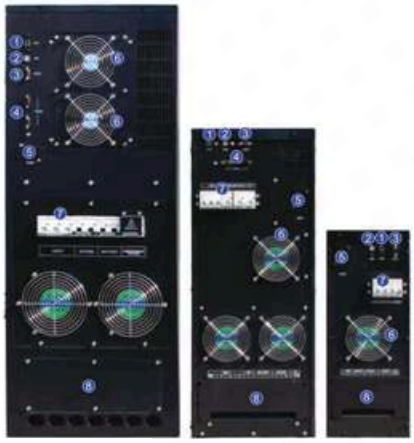
10kVA-30kVA (3:1) PF 0.8

FEATURES

- Single/single-phase, three/single-phase models with on-line double conversion technology.
- DSP (Digital Signal Processors) technology
- Suitable for all kinds of loads (resistive, inductive and non-linear loads etc).
- High overload capability (up to 150%)
- Bypass dual DSP control design to enhance more reliability
- Supports dual input, hot standby in series
- Redundant & parallelable with advanced parallel current-sharing control technology
- Cold star and mains start function
- High charging capability: 2A/4A/6A/8A/10A/12 A selectable (standard), 14 A/16 A/18A/20A/22 A/24 A selectable (options)
- Standard configuration with output isolation transformer
- Superior protection (surge, short-circuit, overvoltage, undervoltage overcharge, reverse battery protection etc.)
- Advanced communications: RS232 and USB ports (standard), SNMP, dry contacts and RS485 (options), wifi card (Optional).
- Other options (parallel kits, input isolation transformer, bypass isolation transformer and harmonic suppressor)
- IGBT Inverter

Rear Panel

1. EPO
2. USB
3. RS232
4. Parallel port (optional)
5. SNMP (optional)
6. Fan
7. Breaker
8. Terminal



Online UPS LXi800

Specificaons

MODEL	LXi810	LXi815	LXi820	LXi830
Capacity	10 kVA / 8 kW	15 kVA / 12 kW	20 kVA / 16 kW	30 kVA / 24 kW
INPUT				
Input wiring	Three-phase five-wire (3Φ + N + PE)			
Rated voltage	380 / 400 / 415 Vac			
Voltage range	285 ~ 475 Vac			
Rated frequency	50 / 60 Hz			
Frequency range	40 ~ 70 Hz			
Bypass voltage range	± 25% (settable)			
BATTERIES				
Output wiring	Single-phase three-wire (1Φ + N + PE)			
Rated voltage	220 / 230 / 240 Vac			
Output voltage regulation	± 1%			
Rated frequency	50 / 60 Hz (settable)			
Output frequency regulation	50 / 60 Hz ± 0.1 Hz in battery mode			
Waveform	Sinusoidal			
Power factor	0.8			
Voltage distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)			
Crest factor	3:1			
Overload	105% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 200% for 100 ms			
OUTPUT				
DC voltage	192 Vdc			
Number of batteries	12 V × 16 pcs			
Charging voltage	216 Vdc			
EOD	168 Vdc			
Charging current	Default 8 A (2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable)			
SYSTEM				
Max. number of parallel connections	2			
Protections	Short-circuit, overload, overvoltage, undervoltage, low battery, overtemperature			
Communications	RS232 / USB (standard); RS485 / SNMP / dry contacts (optional)			
OTHERS				
Operating temperature	0 ~ 40℃			
Storage temperature	– 25℃ ~ 55℃ (without batteries)			
Relative humidity	0 ~ 95% (non-condensing)			
Altitude	≤ 1000 m (derating 1% for each additional 100 m)			
IP rating	IP 20			
Noise level at 1 m	< 60 dB			
Dimensions (W × D × H) (mm)	310 × 600 × 880	400 × 815 × 1100		
Packaged dimensions (W × D × H) (mm)	430 × 710 × 1080	525 × 925 × 1305		
Net weight (kg)	140	210	240	280
Gross weight (kg)	153	225	255	295

All specifications subject to change without notice.
Custom-made specifications are acceptable.
This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems.
For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.

Online UPS LXi890A

10 kVA ~ 120 kVA (3:3) PF 0.9

FEATURES

- Online double-convertion with full DSP control
- IGBT inverter with output isolation transformer
- 100% unbalance load capability
- Output power factor 0.9
- Generator compatible
- Support battery cold start auto-restart when mains power is restored
- ECO mode operation for energy saving
- Superior protection
- 5.7 inches LCD touch screen, friendly human & machine interface
- Front access make maintenance and replacement simplified (60~120 kVA)
- Intelligent self-diagnosing function, all kinds of failure protection, Large capability of history records storage
- High MTBF (> 200,00 h) Low MTTR (< 0.5 h)
- Standard emergency power off (EPO)
- Standard Rs232. Rs485, dry contacts communication port
- Optional SNMP communication port
- Optional N+X redundancy parallel up to 6 units
- Optional input filter to improve input power factor
- IGBT Inverter

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Online UPS LXi890A

Specificaons

MODEL	LXi8910	LXi8915	LXi8920	LXi8930	LXi8940	LXi8960	LXi8980	LXi89100	LXi89120
Capacity	10 kVA / 9 kW	15 kVA / 13.5 kW	20 kVA / 18 kW	30 kVA / 27 kW	40 kVA / 36 kW	60 kVA / 54 kW	80 kVA / 72 kW	100 kVA / 90 kW	120 kVA / 108 kW
INPUT									
Input wiring	Three-phase five-wire (3 Ø + N + PE)								
Rated voltage	380 / 400 /415 Vac								
Voltage range	285 ~ 475 V								
Rated Frequency	50/60 Hz								
Frequency range	(50 / 60) ± 5 Hz								
Power factor	= 0.95 (with Filter)								
Delayed start of rectifier	10 s (1 ~ 300 settable)								
Bypass voltage range	± 20% (settable)								
BATTERIES									
Output wiring	Three-phase five-wire (3 Ø + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Output Voltage regulation	± 1%								
Output Frequency regulation	50/60 Hz ± 0.1% Hz in battery mode								
Waveform	Sinusoidal								
Power factor	0.9								
Voltage distortion (THDv)	= 1% (linear load); = 5% (non-linear load)								
Crest Factor	3:1								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min								
OUTPUT									
DC Voltage	Lead acid battery: 360 Vdc Lithium iron phosphate battery : 384 Vdc								
Number of battery	Lead Acid battery : 12 V x 30 pcs (support 28 ~ 32 pcs) Lead Acid battery : 2 V x 180 pcs (support 168 ~ 192 pcs) Lithium iron phosphate battery : 3.2 V x 120 pcs (support 112/120 pcs)								
Charging current	Charging rate (settable) x battery capacity (settable) x number of battery groups (settable)								
SYSTEM									
Efficiency	In Line mode: Max. 93%; ECO mode: = 98%								
Max. number of parallel connections	6								
Protections	Short-circuit, overload, overtemperature,battery low voltage,overvoltage,undervoltage and fan failure								
Communications	RS232 / RS485 / dry contacts (standard), SNMP (optional)								
EMI	EN62040-2								
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4-(EFT) IEC61000-4-5 (surge)								
OTHERS									
Operating temperature	0°C ~ 40°C								
Storage temperature	-25°C ~ 55°C (without batteries)								
Relative humidty	0% ~ 95% (non-condensing)								
Altitude	= 1000 m (derating 1 % for each additional 100m)								
IP rating	IP 20								
Noise level at 1 m	65 dB								
Dimensions (WxDxH) (mm)	400 x 800 x 1100					600 x 700 x 1500	700 x 800 x 700		
Packaged dimensions (WxDxH) (mm)	490 x 920 x 1300					700 x 800 x 1650	800 x 900 x 1850		
Net weight (kg)	158	165	175	210	260	460	590	630	690
Gross weight (kg)	200	207	217	252	302	480	620	660	720

Online UPS LXi890B

80 kVA ~ 500 kVA (3:3) PF 0.9

Nx890 series UPS 80-500 kVA provide maximum protection and power quality for mission critical loads, including data centers, Industrial Processes, telecommunications, security and electro-medical systems. It is on-line double conversion UPS with IGBT based 3-level PWM rectifier technology, featured with high input power factor (> 0.99), low THDi, high efficiency and built-in output isolation transformer.

FEATURES

- Online double-convertion with DSP control
- Latest IGBT rectifier technology, high input power factor (> 0.99) and low THDi (≤3%)
- High efficiency even at light loads
- Strong mixed load capacity and high overload capacity
- Compact and small footprint
- Unique ventilation design
- Batteries are directly connected directly to the bus, improving the impact resistance of UPS output
- Output isolation transformer using DZnO winding makes strong capability with unbalanced loads
- Input and Output are completely isolated for great security
- Simulated modular design makes maintenance easy and quick
- High MTBF (> 200,000 h)
- Low MTTR (<0.5 h)
- Front accessible maintenance and installation against wall allowed
- Bottom and sides cable entry compatible
- Generator compatible.
- Intelligent self-diagnosing function, superior failure protection, large capability of history records storage
- Optional N+X redundancy parallel upto 6 units
- IGBT Inverter and Rectifier

Online UPS LXi890B

Specificaons

MODEL	LXi8980	LXi89100	LXi89120	LXi89200	LXi89200	LXi89250	LXi89300	LXi89400	LXi89500
Capacity	80 kVA / 72 kW	100 kVA / 90 kW	120 kVA / 108 kW	160 kVA / 144 kW	200 kVA / 180 kW	250 kVA / 225 kW	300 kVA / 270 kW	400 kVA / 360 kW	500 kVA / 450 kW
INPUT									
Input wiring	Three-phase five-wire (3 Ø + N + PE)								
Rated voltage	380 / 400 /415 Vac								
Voltage range	304 ~ 346 V (derating 10%), 346 ~ 456 V (full load)								
Rated Frequency	50/60 Hz								
Frequency range	(50 / 60) ± 5 Hz								
Power factor	≥ 0.99								
Total harmonic distortion (THDi)	≤ 3 %								
Delayed start of rectifier	10 s (1 ~ 300 settable)								
Bypass voltage range	± 20% (settable)								
BATTERIES									
Output wiring	Three-phase five-wire (3 Ø + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Output Voltage regulation	± 1%								
Output Frequency regulation	50/60 Hz ± 0.1% Hz in battery mode								
Waveform	Sinusoidal								
Power factor	0.9								
Voltage distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)								
Crest Factor	3:1								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min								
OUTPUT									
DC Voltage	Lead acid battery: 600 Vdc Lithium iron phosphate battery : 614.4 Vdc								
Number of battery	Lead Acid battery : 12 V x 50 pcs (support 48 ~ 52 pcs) Lead Acid battery : 2 V x 300 pcs (support 288 ~ 312 pcs) Lithium iron phosphate battery : 3.2 V x 192 pcs (support 192/208 pcs)								
Charging current	Charging rate (settable) x battery capacity (settable) x number of battery groups (settable)								
SYSTEM									
Efficiency	Line mode ≥ 92% ECO mode ≥ 97%			Line mode ≥ 94% ECO mode ≥ 98%					
Max. number of parallel connections	6								
Protections	Short-circuit, overload, overtemperature,battery low voltage,overvoltage,undervoltage and fan failure								
Communications	Standard configuration : RS232, RS485, dry contacts Optional configuration: SNMP card, temperature compensation, SMS alarms								
Display	5.7 inches LCD touch screen								
OTHERS									
Operating temperature	0°C ~ 40°C								
Storage temperature	-25°C ~ 55°C (without batteries)								
Relative humidty	0% ~ 95% (non-condensing)								
Altitude	≤ 1000 m, Above 1000 m, derating 1% for each additional 100 m								
IP rating	IP 20								
Noise level at 1 m	≤ 65 dB							≤ 70 dB	
Dimensions (WxDxH) (mm)	800 x 800 x 1800			800 x 860 x 1700	1210 x 860 x 1950			2380 x 860 x 1950	
Packaged dimensions (WxDxH) (mm)	900 x 900 x 2050			900 x 1000 x 1950	1300 x 1000 x 2200			1300 x 1000 x 2200 (x2)	
Net weight (kg)	580	630	680	790	1135	1275	1355	2090	2300
Gross weight (kg)	630	680	730	840	1200	1340	1420	2200	2410

All specifications are subject to change without notice.
Custom-made specifications are acceptable.
This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems.
For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.

ONLINE UPS LXi900 Z5

10 kVA ~ 20 kVA (3:1/1:1) PF 1.0

FEATURES

- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range (190-499 Vac) and frequency range (40-70 Hz)
- 50/60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input/60 Hz output or 60 Hz input/50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 10-20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 10 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating/
- equalizing charge control, charger dormancy control,
- increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Isolation Transformer
- IGBT Inverter and Rectifier

- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly
- human-machine interface
  Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485,
- SNMP and dry contacts communication interfaces
  Effective software and hardware protection function, robust
- self-diagnostic function, and abundant event log for check

AVAILABLE OPTIONS

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation,SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

REAR PANEL

- RS232
- EPO
- Parallel Port (optional)
- USB (optional)
- Temperature Detection (optional)
- Intelligent Slot
- Reserved: for manual bypass or battery breaker or outlets etc.
- Fans
- Bypass Breaker
- Input Breaker
- GND
- Terminals and cover

10 kVA(H) 15/20 KVA(H) 10 kVA(S)

ONLINE UPS LXi900 Z5

Specificaons

MODEL	LXi9010	LXi9015	LXi9020
Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW
INPUT			
Input wiring	Three-phase five-wire (3Φ + N + PE)		
Rated voltage	380 / 400 / 415 Vac		
Voltage range	190 ~ 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 Vac (no derating)		
Rated frequency	50 / 60 Hz (auto-sensing)		
Frequency range	40 ~ 70 Hz		
Power factor	≥ 0.99		
Bypass voltage range	- 40% ~ +15% (settable)		
Total harmonic distortion (THDi)	≤ 5%		
BATTERIES			
Output wiring	Single-phase three-wire (1Φ + N + PE)		
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac		
Voltage regulation	± 1%		
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode		
Waveform	Sinusoidal		
Power factor	1		
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)		
Crest factor	3:1		
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min,126% ~ 150% for 30 s		
OUTPUT			
DC voltage	120 Vdc (120 ~ 240 Vdc settable)		
Number of battery	10 pcs (10 ~ 20 settable)		
Inbuilt battery (standard model)	12 V / 9 Ah×10	/	/
Charging current	Standard model: 1 A; Long time model: 5 A (default) ,1 ~ 5 A settable; 10 A (optional)		
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery		
SYSTEM			
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode		
Transfer time	0 ms		
Protections Max. number of parallel	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure		
connections	4		
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)		
Display	LCD + LED		
OTHERS			
Operating temperature	0℃ ~ 40℃		
Storage temperature	-25℃ ~ 55℃ (without battery)		
Relative humidity	0 ~ 95% (non-condensing)		
Altitude	≤ 1000 m, derating 1% for each additional 100 m		
IP rating	IP 20		
Noise level at 1 m	≤ 58 dB		
Dimensions (W × D × H) (mm)	191 × 495 × 711 (S) 191 × 495 × 350 (H)	191 × 495 × 515 (H)	
Packaged dimensions (W × D × H) (mm)	310 × 685 × 941 (S) 318 × 617 × 475 (H)	285 × 593 × 618 (H)	
Net weight (kg)	64 (S), 18.5 (H)	26.5 (H)	
Gross weight (kg)	72 (S), 20 (H)	28 (H)	

S means standard model; H means long time model.
All specifications are subject to change without notice.
Note: With Isolation Transformer, UPS Dimensions & Weight will be Changed.

ONLINE UPS LXi990 Z5

10 kVA ~ 60 kVA (3:3) PF 1.0, (3:1)
Configurable

FEATURES

- Advanced dual-core DSP control technology and 3-level
- technology
- Active power factor correction (APFC), input power factor
- up to 0.99
- System efficiency is improved to 95%, 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-serising 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
- Flexible battery configuration setting, selectable battery numbers: 32-40 pcs
- Digitally controlled charger (Max. 10 A)
- 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 log for future check
- Standard RS232, USB, RS485, EPO, Dry contacts, Parallel port
- Optional SNMP card, WI-FI card, GPRS card, SMS alarms
- Isolation Transformer As Optional.
- IGBT Inverter and Rectifier

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ONLINE UPS LXi990 Z5

Specificaons

MODEL	LXi9910	LXi9915	LXi9920	LXi9930	LXi9940	LXi9960
Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW	30 kVA / 30 kW	40 kVA / 40 kW	60 kVA / 60 kW
INPUT						
Rated voltage	380 / 400 / 415 Vac (L-L)					
Voltage range	304~478Vac (L-L), full load 228V~304Vac (L-L), load decrease linearly according to the min phase voltage					
Rated frequency	50 / 60 Hz (auto-sensing)					
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					
Total harmonic distortion (THDi)	<3% (full linear load)					
Bypass overload	125%: long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms					
BATTERIES						
Rated voltage	380 / 400 / 415 Vac (L-L)					
Voltage regulation	±1% (full linear load)					
Frequency	Synchronized with utility in mains mode, 50/60 Hz ±0.1% in battery mode					
Waveform	Sinusoidal					
Power factor	1					
Total harmonic distortion (THDv)	<1% (full linear load) <3% (full non-linear load according to IEC/EN62040-3)					
Crest factor	3:1					
Overload	<110%, 60min; 110%~125%, 10min; 125%~150%,1min; >150%, 200ms					
OUTPUT						
DC voltage	Long time model: ±240VDC (Selectable, 32 - 40pcs)					
Inbuilt battery (standard model)	(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%					
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery					
SYSTEM						
Efficiency	95% Max.					
Transfer time	0 ms					
Max. number of parallel connections	4					
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure					
Communications	RS232, USB, RS485, EPO, Dry contacts, Parallel port (Standard) SNMP card, WI-FI card, GPRS card, SMS alarms (Optional)					
Display	LED + 5 inches LCD touch screen					
OTHERS						
Operating temperature	0°C ~ 40°C					
Storage temperature	-40°C ~ 70°C					
Relative humidity	0 ~ 95% (Non-condensing)					
Altitude	<1000m, load derated 1% per 100m from 1000 ~ 2000m					
IP rating	IP 20					
Noise level at 1 m	55dB @ 100% load, 52dB @ 50% load			58dB @ 100% load, 55dB @ 50% load		
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)	
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)	
Net weight (kg)	82 (S) 31 (H)	131 (S) 33 (H)		145 (S) 33 (H)	215 (S) 42 (H)	
Gross weight (kg)	93 (S) 40 (H)	142 (S) 42 (H)		156 (S) 42 (H)	227 (S) 52 (H)	

S means standard model, H means long time model.
All specifications are subject to change without notice.
Note: With Isolation Transformer, UPS Dimensions & Weight will be Changed.

Custom-made specifications are acceptable.

ONLINE UPS LXi990 Z4

40 kVA ~ 200 kVA (3:3) PF 1.0

FEATURES

- Advanced dual-core DSP control technology and 3-level technology
- Output power factor 1.0
- Active Power Factor Correction Technology, input power factor up to 0.99
- System efficiency improved to 96%, energy saving rate is doubled
- Working eficiency up to 99% in ECO mode
- 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 Hz/60 Hz frequency conversion mode
- Compact internal layout, small footprint
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Features strong fault tolerance, one fan damaged takes 50% of the load, two fans damaged take 30% of the load
- Conformal coating technology to make UPS operate in harsh environment for a long time.
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Linear downgrading in low voltage input reducing battery discharging times
- Flexible battery configuration setting, selectable battery numbers: 30-44 pcs •
- Digitally controlled charger (Max. 48 A)
- 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 output uninterrupted
- Settable delayed start time when mains power is restored
- 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, RJ45, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Options and accessories: RS232, USB, RS485, RJ45, parallel, dry contacts, EPO and battery temperature compensation interfaces supplied; optional SNMP card, Wi-Fi card, GPRS card, battery temperature sensor, EMD detector and SMS alarms
- IGBT Inverter and Rectifier

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ONLINE UPS LXi990 Z4

Specificaons

MODEL	LXi9940	LXi9960	LXi9980	LXi99100	LXI99120	LXi99160	LXi99200
Capacity	40 kVA/40 kW	60 kVA/60 kW	80 kVA/80 kW	100 kVA/100 kW	120 kVA/120 kW	160 kVA/160 kW	200 kVA/200 kW
INPUT							
Input wiring	Three-phase five-wire (3Φ + N + PE)						
Rated voltage	380 / 400 / 415 Vac						
Voltage range	304 ~ 485 Vac (no downgrading), 138 ~ 304 Vac (linear downgrading between 40% ~ 100% load)						
Rated frequency	50 / 60 Hz (auto-sensing)						
Frequency range	40 ~ 70 Hz						
Power factor	≥ 0.99						
Bypass voltage range	-60% ~ +20% (settable)						
Total harmonic distortion (THDi)	≤3%						
BATTERIES							
Output wiring	Three-phase five-wire (3Φ + N + PE)						
Rated voltage	380 / 400 / 415 Vac						
Voltage regulation	±1%						
Frequency	Synchronized with utility in mains mode, 50 / 60 Hz ±0.1% in battery mode						
Waveform	Sinusoidal						
Power factor	1						
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)						
Crest factor	3:1						
Overload	105% ~110% for 60 min, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, >150% for 0.2 s						
OUTPUT							
DC voltage	± 192 Vdc (± 180 ~ ± 264 Vdc settable) 40 kVA built-in battery: ± 240 Vdc (80 pcs 9 Ah/12 V)						
Number of battery	32 pcs (30 ~ 44 pcs settable)						
Charging current (max.)	12 A	24 A			36 A		48A
Recharge time	Depend on the capacity of battery						
SYSTEM							
Efficiency	Max. 96% in online mode, 99% in ECO mode						
Transfer time	0 ms						
Protections	Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure						
Max. number of parallel connections	4						
Communications	Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card						
Display	5 inches colorful LCD touch screen						
OTHERS							
Operating temperature	0℃~40℃						
Storage temperature	-25℃~55℃ (without battery)						
Relative humidity	0% ~ 95% (non-condensing)						
Altitude	≤ 1000 m; above 1000 m, downgrading 1% for each additional 100 m						
IP rating	IP 20						
Noise level at 1 m	≤ 65 dB						
Dimensions (W × D × H) (mm)	360 × 850 × 885	360 × 850 × 950	360 × 850 × 1200	440 × 850 × 1200		600 × 850 × 1200	
Packaged dimensions (W × D × H) (mm)	450 × 940 × 1055	450 × 940 × 1120	450 × 940 × 1370	530 × 940 × 1370		700 × 950 × 1370	
Net weight (kg)	95, 295 (built-in BAT)	130	156	158	198	250	300
Gross weight (kg)	110, 310 (built-in BAT)	145	172	180	220	275	325

All specifications are subject to change without notice.
Custom-made specifications are acceptable.
Derate capacity to 90% when the number of batteries is set to 30 pcs.
Note: With Isolation Transformer, UPS Dimensions & Weight will be Changed.

ONLINE UPS LXi990 Z4

25 kVA~200kVA PF 1.0

HIGHLIGHTS

- High power factor 1.0
- High efficiency 96%
- High power density
- 3-level technology
- 2 U power module
- Power flexibility from 25-200 kW
- Scalability & Modular hot-swappable.
- Low total cost of ownership

Nx660 Series modular UPS is idea for re iable, saving, intelligent and easy solutions. It ensures that a scalable, secure, high quality power supply is available for any critical high-density computer and IT environment applications, such as data centers and other critical loads.

Nx660 Series (25 kVA-200 kVA) UPS is a high-end modular UPS with latest dual-core DSP control technology. It adopts a highly intelligent modular design which mainly contains power modules, bypass module. and control module, all modules support "plug & play" to simplify UPS servicing and maintenance. The available UPS power and redundancy level can expand vertically from 25 kVA/25 kW to 200 kVA/200 kW in one single power cabinet with flexible configuration for meeting. different needs. Based on superior electrical performance, perfect hardware and software protection function, Nx660 Series UPS can adapt to diferent grid environment and provides maximum protection and high quality power for critical loads in data centers or other Important applications

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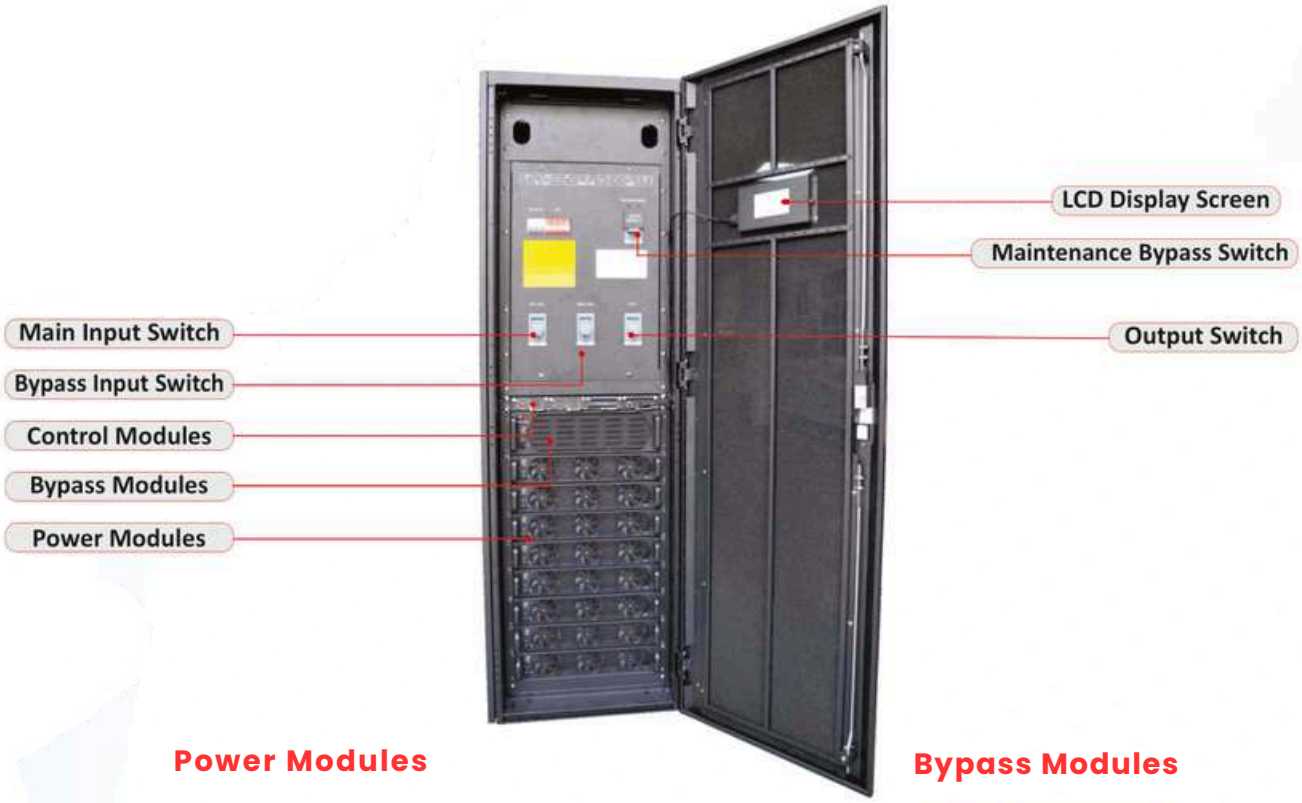
FEATURES

- Advanced dual-core DSP control technology, Waveform: Sinusoidal
- True On-line, double conversion power protection, and with strong load capacity.
- Compact footprint, modular Hot-swappable design simplifying maintenance and scalability
- High efficiency up to 96% in on-line mode, 99% efficiency in ECO mode.
- Dual input design, independent bypass available, improving bypass availability
- Output power factor 1.0, input power factor ≥ 0.99, input THDi ≤ 3%, output THDv≤1%
- 138~485 Vac wide input voltage range, 50 Hz/60 Hz grid self-adaptive
- Frequency conversion available: 50 Hz input/60 Hz output or 60 Hz input/50 Hz output
- Advanced digital parallel technology, improving redundancy and reliability in system
- Flexible charger parameter and battery configuration settings, battery number 30-46 pcs selectable
- Compatible with lead-acid battery and lithium battery, suitable for diferent types of battery configuration requirements
- Support cold start with battery and auto restart with mains power
- Settable delay time for startup when the mains power is restored, reducing the impact on the grid or generators
- Fan speed varies intelligently with temperature, reducing noise and extending the service life. of the fan
- Fault-tolerant design for fan system, taking 35% loads when any one of fans fails
- Superior hardware and software protection function, robust self-diagnostic function, and abundant event log
- Hibernation function to improve the system efficiency at light loads and extend the service life of UPS
- Powerful background software for parameters configuration and online updating
- 7 inches LCD touch screen, friendly human-machine interface
- Multi-platform communications: RS232, RS485, CAN, NET, dry contacts, SNMP, Wi-Fi and GPRS communication interfaces; Real-time monitoring UPS available through the mobile App after installing Wi-Fi card and GPRS card
- Intelligent battery management, automatic floating/equalizing charge control, battery
- self-diagnosis control, SOC detection,
- SOH detection and charger hibernation control, extending battery lifespan
- IGBT Inverter and Rectifier

AVAILABLE OPTIONS

- Parallel cables,
- LBS cables,
- Battery temperature sensor,
- Wi-Fi card,
- GPRS card,
- EMD and SMS alarms



Power Modules

❶ Run Indicator ❷ Alarm Indicator ❸ Fault Indicator
❹ Ready Switch ❺ Output Port ❻ Input Port

Dimensions (W x D x H) (mm)	442×620×86
Weight (kg)	20.26 kg
Charging current	10 A
Capacity	25 kVA / 25 kW
Power density	17.2 W / inch³

Bypass Modules

❶ Run Indicator ❷ Alarm Indicator ❸ Fault Indicator
❹ Ready Switch ❺ Signal Terminal ❻ Power Terminal

Dimensions (W×D×H) (mm)	442×500×130
Weight (kg)	18 kg
Capacity	200 kVA / 200 kW

Control Modules

01. LBS Connection Port/Rack Parallel Port
02. LED Indicator
03. Input Dry Contacts
04. Output Dry Contacts
05. Battery Ground Fault (BTG) Interface / Generator (GEN) Interface
06. Generator (GEN) Port
07. Battery Circuit Breaker (BCB) Port
08. Epo Port
09. Switch State Port of Distribution Cabinet
10. SPD Port
11. Ambient Temp Port
12. Battery Temperature Compensation
13. Can Port
14. R485 Port 1
15. R485 Port 2
16. Ethernet Port
17. USB Port
18. LCD Port
19. Lug-in Switch of System Control Boards
20. Plug-in Switch of Dry Contacts Board
21. Plug-in Switch of Monitoring Board

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MODULAR UPS LXi660A

Specificaons

MODEL	LXi6600	LXi66200
Rated capacity	100 kVA / 100 kW	200 kVA / 200 kW
Number of power module	4	8
Rated capacity of power module	25 kVA / 25 kW	
INPUT		
Input wiring	Three-phase five-wire (3Φ + N + PE)	
Rated voltage	380 / 400 / 415 Vac	
Voltage range	138 ~ 305 Vac (linear derating at 40% ~ 100% load), 305 ~ 485 Vac (no derating)	
Frequency range	40 ~ 70 Hz	
Input power factor	≥ 0.99	
THDi	≤ 3%	
Bypass input voltage range	-60% ~ +25% (settable)	
Battery voltage	± 240 Vdc (±180 ~ ± 276 Vdc settable)	
Number of battery	40 pcs 12 V batteries (30, 32, 34, 36, 38, 40 42, 44, 46 pcs settable)	
BATTERIES		
Output wiring	Three-phase five-wire (3Φ + N + PE)	
Rated voltage	380 / 400 / 415 Vac	
Output voltage regulation accuracy	±1%	
Output frequency accuracy	Synchronized with utility in mains power mode; 50 Hz / 60 Hz ± 0.1% in battery mode	
Output power factor	1	
Output waveform distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)	
Crest factor	3:1	
Overload capacity	105% < load ≤ 110% for 60 min, 110% < load ≤ 125% for 10 min, 125% < load ≤ 150% for 1 min, load > 150% for 0.2 s	
OUTPUT		
Max. efficiency	96% in on-line mode, 99% in ECO mode	
Transfer time	0 ms	
Max. number of parallel connections	2	
Protections	Short-circuit - overload - over-temperature - battery low voltage - undervoltage - overvoltage - fan failure protection	
Communications	Standard configurations: RS485 CAN, NET, SNMP, dry contacts port, and EPO Optional configurations: Wi-Fi card, parallel port, LBS port, GPRS card, Battery temperature sensor, EMD and SMS alarms	
Display	7 inches LCD touch screen	
SYSTEM		
Operating temperature	0°C ~ 40°C	
Storage temperature	-25°C ~ +55°C (without battery)	
Relative humidity	0% ~ 95% (non-condensing)	
Altitude	≤ 1000 m, above 1000 m, derating 1% for each additional 100 m	
Protection level	IP 20	
Noise	≤ 65 dB (at 1 m)	
OTHERS		
Cabinet dimensions (W x D x H)(mm)	600×850×1200	600 x 850 x 2000
Cabinet weight(kg)	180	280
Module dimensions(W x D x H)(mm)	442 x 620 x 86	
Power module weight(kg)	21	
Color	Black	

All specifications are subject to change without notice.

MODULAR UPS LXi660B

50 kVA~600kVA PF 1.0

HIGHLIGHTS

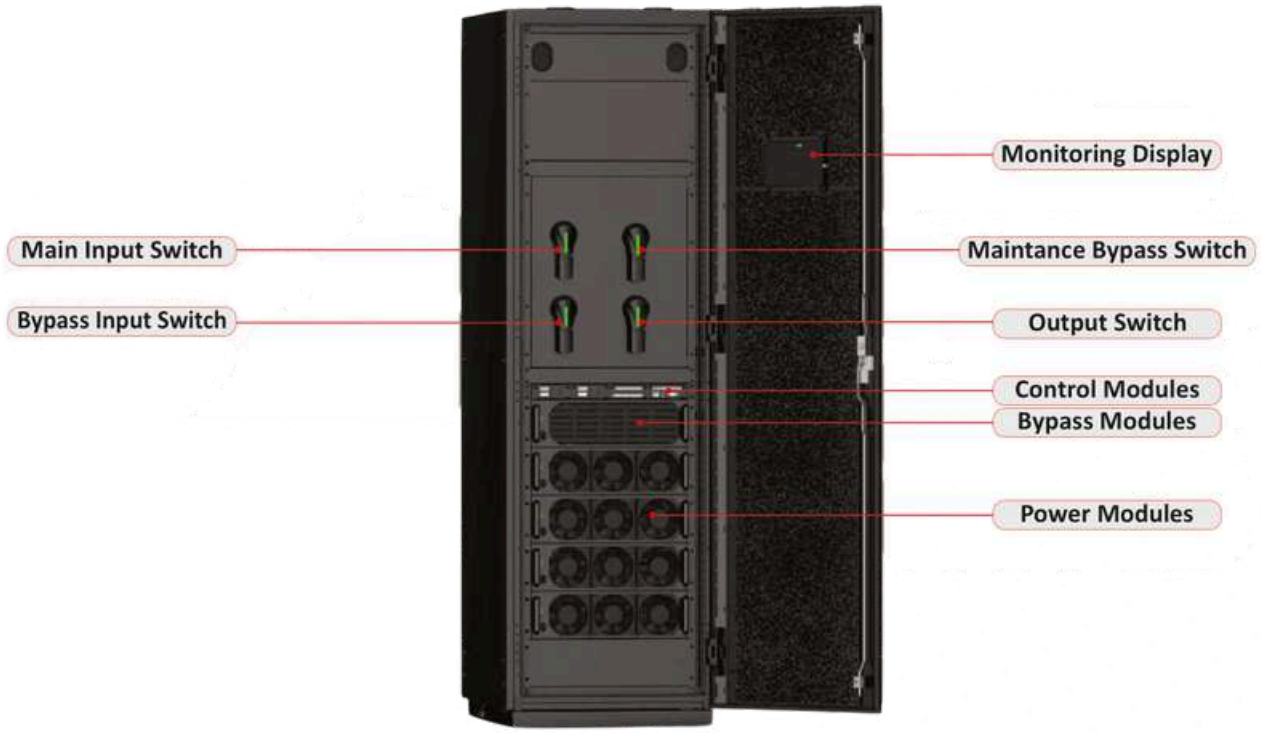
- High power factor 1.0
- High efficiency 96.5%
- High adaptability
- Power flexibility from 50 600 kW
- Modular hot-swappable & Scalability
- High MTBF and low MTTR

Nx660 modular UPS is ideal for reliable, saving, intelligent and easy solutions. It ensures that a scalable, secure, high quality power supply is available for any critical high-density computer and IT environment applications, such as data centers and other critical loads

Nx660 modular UPS is a scalable three-phase/three-phase uninterruptible power supply system with DSP technology and provides true on-line double conversion power protection. The available UPS power and redundancy level can expand vertically from 50 to 600 kVA/600 kW in one single power cabinet, and four power cabinets can be connected in parallel, increasing the capacity up to 2.4 M kW. It features modular hot-swappable design, all modules support "plug & play", including power modules, bypass module, and control module, simplifies UPS servicing and maintenance.

FEATURES

- DSP digital control technology
- Flexible modularity and easy scalability with all hot-swappable module design
- High efficiency at low load rate: 96% at 40% rated load and 95% at 20% rated load
- High power density of 50 kVA/3U power module
- High grid adaptability, strong load adaptability and strong overload capability
- Small footprint (500 KVA system only 1.02 m footprint)
- Inbuilt integrated PDU system, easy installation and saving investment
- Input power factor > 0.99, THDI <3%, environment friendly and high-efficiency and energy-saving
- Soft-start technology improves generator matching up to 1:1.1
- Support two modes of frequency conversion: 50 Hz input/60 Hz output and 60 Hz input/50 Hz output
- Intelligent hibernation design enables UPS to operate efficiently at low load rate
- Advanced parallel expansion technology, support 4 units in parallel
- Share battery pack in parallel operation, saving user's battery cost
- Flexible charger parameter and battery configuration setting, numbers of battery 30-46 pcs selectable
- Intelligent battery management (Intelligent charge/discharge management and float charging voltage
- temperature compensation), extending battery lifespan
- Support battery cold start and utility self boot
- Self-aging function, easy debugging and test on site
- Fault-tolerant design for fan system: 30% load can be driven when 2 fans fail and 50% load when 1 fan fails
- Front accessible maintenance, top/bottom cable entry compatible.
- Complete hardware and software protection function, robust self-diagnostic function, and abundant event log for check
- 7 inches LCD touch screen, friendly human-machine interface
  Monitoring unit with built-in SNMP, supports RS485 and dry contacts
- IGBT Inverter and Rectifier



Power Modules

Bypass Modules

Control Modules

- Parallel Port
- LED Indicator
- DRY_IN
- DRY_OUT
- BTG Port
- BCB Port
- BCB Tripping Signal
- EPO Port
- Switch State Port of Power Distribut Cabinet
- SPD Port

- Environmental Temperature Port
- Battery Temperature Compensation Port
- Can Port
- RS485 Port 1
- RS485 Port 2
- Ethernet Port
- USB Port
- LCD Screen Port

MODULAR UPS LXi660B

Specificaons

MODEL	LXi66200	LXi66300	LXi66400	LXi66500	LXi66600
Rated capacity	200 kVA/200 kW	300 kVA/300 kW	400 kVA/400 kW	500 kVA/500 kW	600 kVA/600 kW
Numbers of power modules	4	6	8	10	12
Rated capacity of power module	20/40/50 kVA	30/50/60 kVA	40/50 kVA	50 kVA	50/60 kVA
INPUT					
Input wiring	3 Ph + N + PE				
Rated voltage	380 / 400 / 415 Vac				
Voltage range	138 ~ 485 Vac (305 ~ 485 Vac without power downgrading; 138 ~ 305 Vac with linear downgrading 40%)				
Input frequency	40 ~ 70 Hz				
Power factor	⩾ 0.99				
Current distortion	< 3%				
BATTERIES					
Battery voltage	± 240 Vdc (±180, ± 192, ± 204, ± 216, ± 228, ± 252, ± 264, ± 276 selectable)				
Number of battery	40 pcs 12 V batteries (30 / 32 / 34 / 36 / 38 / 42 / 44 / 46 pcs selectable)				
OUTPUT					
Output wiring	3 Ph + N + PE				
Rated voltage	380 / 400 / 415 Vac ±1%				
Frequency	Synchronized with utility in mains power mode: 50 Hz / 60 Hz ± 0.25% in battery mode				
Power factor	1				
Voltage distortion	≤ 1% with linear load / ≤ 3 % with non-linear load				
Crest factor	3:1				
Inverter overload capacity	105% < load ≤ 110%: transfer to bypass in 60 min 110% < load ≤ 125%: transfer to bypass in 10 min 125% < load ≤ 150%: transfer to bypass in 1 min Load > 150%: transfer to bypass in 200 ms				
Bypass overload capacity	Load ≤135% for long term; < 1000% load for 100 ms				
SYSTEM					
Efficiency	96.5 %				
Max. number of parallel connections	4 units				
Transfer time	0 ms				
Protections	Short circuit protection, overload protection, over-temperature protection, battery low voltage protection, output over/low voltage protection, fans failure protection etc.				
Communications	RS485, dry contacts, SNMP				
Display	7 inches LCD touch screen				
OTHERS					
Operating temperature	0 ~ 40℃				
Storage temperature	-40℃ ~ +70℃				
Humidity	0 ~ 95% (non-condensing)				
Altitude	≤ 1000 m. Above 1000 m, derating 1% for each additional 100 m				
Protection level	IP 20				
Noise level at 1 m	< 65 dB	< 68 dB			
Cabinet dimensions (W × D × H) (mm)	600 × 850 × 2000		1200 × 850 × 2000		1400 × 850 × 2000
UPS module dimensions (W × D × H) (mm)	440 × 620 × 130				
Cabinet weight (kg)	233	242	415	465	617
Power module weight (kg)	32				

MODULAR UPS LXi660B

400 kVA~1200kVA PF 1.0

HIGHLIGHTS

- High power factor 1.0
- High efficiency 97%
- High adaptability
- Power flexibility from 400-1200 kW
- Modular hot-swappable & Scalability
- High MTBF and low MTTR

Nx660 modular UPS is ideal for reliable, saving, intelligent and easy solutions. It ensures that a scalable, secure, high quality power supply is available for any critical high-density computer and IT environment applications, such as data centers and other critical loads.

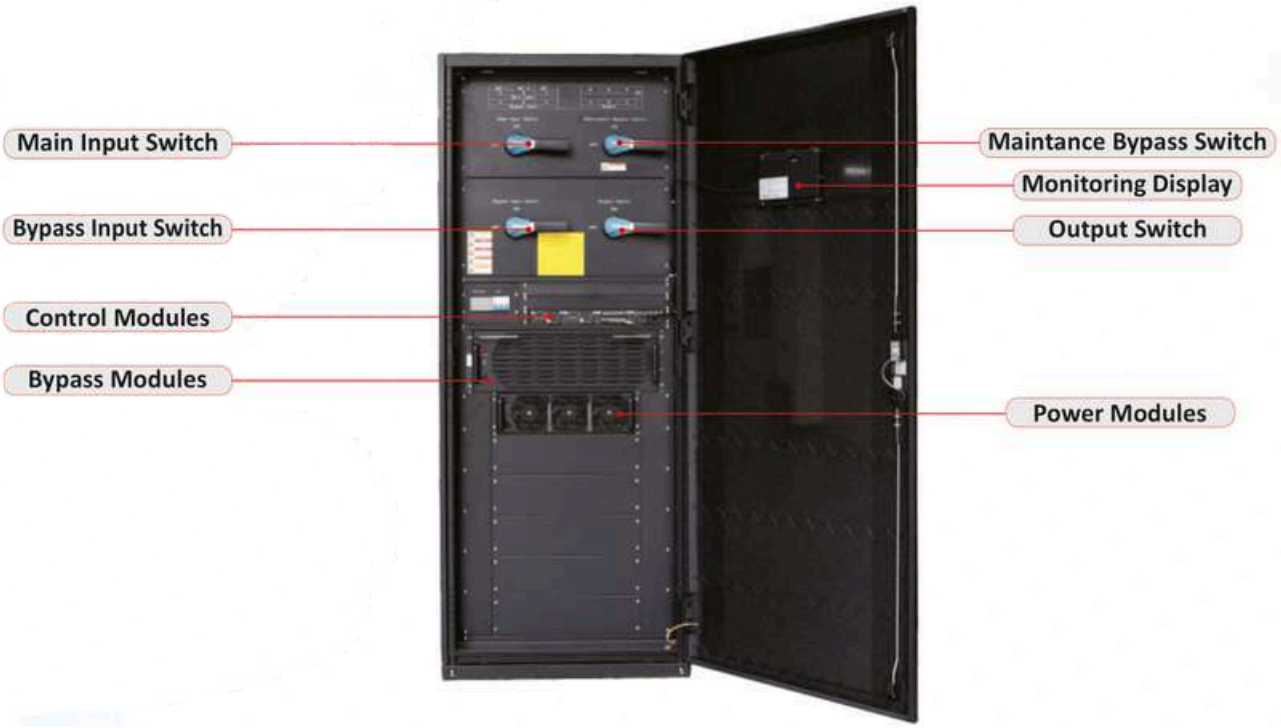
Nx660 modular UPS is a scalable three-phase/ three-phase: uninterruptible power supply system with DSP technology and provides true on-line double conversion power protection. The available UPS power and redundancy level can expand vertically from 400 to 1200 kVA/1200 kW in one single power cabinet, and four power cabinets can be connected in parallel, increasing the capacity up to 4800 kW It features modular hot swappable design, all modules support "plug & play". including power modules, bypass module, and control module, simplifies UPS servicing and maintenance

FEATURES

- Dual DSP digital control technology
- Flexible modularity and easy scalability with all hot-swappable module design.
- High efficiency at low load rate: 97% at 40% rated load and 96% at 20% rated load
- High power density of 100 kVA/3U power module.
- Wide input voltage range, high grid adaptability, strong load adaptability and strong overload capability
- Small footprint (600 kVA system only 0.8 m² footprint)
- Inbuilt integrated PDU system, easy installation and saving investment
- Input power factor > 0.99, THDI <3%, environment friendly and high-efficiency and energy-saving
- Soft-start technology improves generator matching up to 1:1.1
- Support two modes of frequency conversion: 50 Hz input/60 Hz output and 60 Hz input/50 Hz output
- Intelligent hibernation design enables UPS to operate efficiently at low load rate to prolong service life and improve the system efficiency
- Advanced parallel expansion technology, support 4 units in parallel.
- Share battery pack in parallel operation, saving user's battery cost
- Flexible charger parameter and battery configuration setting, numbers of battery 30-50 pcs selectable
- Intelligent battery management (Intelligent charge/discharge management and float charging voltage.
- temperature compensation), extending battery lifespan
- Support battery cold start and utility self boot
- Self-aging function, easy debugging and test on site
- Fault-tolerant design for fan system: 20% load can be driven when 2 fans fail and 50% load when 1 fan fails
- Front accessible maintenance, top/bottom cable entry compatible
- Complete hardware and software protection function, robust self-diagnostic function, and abundant event log for check
- 7 inches LCD touch screen, friendly human-machine interface.
- Monitoring unit with built-in SNMP, supports RS485 and dry contacts
- IGBT Inverter and Rectifier

400-600kVA

800-1200KVA



Power Modules

Bypass Modules

Control Modules

- Parallel Port
- LED Indicator
- DRY_IN
- DRY_OUT
- BTG Port
- BCB Port
- BCB Tripping Signal
- EPO Port
- Switch State Port of Power Distribut Cabinet
- SPD Port
- Environmental Temperature Port
- Battery Temperature Compensation Port
- Can Port
- RS485 Port 1
- RS485 Port 2
- Ethernet Port
- USB Port
- LCD Screen Port

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MODULAR UPS LXi660B

Specificaons

MODEL	LXi66400	LXi66500	LXi66600	LXi66800	LXi661000	LXi661200
Rated capacity	400 kVA/400 kW	500 kVA/500 kW	600 kVA/600 kW	800 kVA/800 kW	1000 kVA/1000 kW	1200 kVA/1200 kW
Numbers of power modules	4	5	6	8	10	12
Rated capacity of power module	100 kVA / 100 kW					
INPUT						
Input wiring	3 Ph + N + PE					
Rated voltage	380 / 400 / 415 Vac					
Voltage range	138 ~ 485 Vac (324 ~ 485 Vac without power downgrading; 139 ~ 324 Vac with linear downgrading 35%)					
Input frequency	40 ~ 70 Hz					
Power factor	≥ 0.99					
Current distortion	< 3%					
BATTERIES						
Battery voltage	480 Vdc (360 ~ 600Vdc selectable)					
Number of battery	40 pcs 12 V batteries (30~50 pcs selectable)					
OUTPUT						
Output wiring	3 Ph + N + PE					
Rated voltage	380 / 400 / 415 Vac ± 1%					
Frequency	Synchronized with utility in mains power mode: 50 Hz / 60 Hz ± 0.25% in battery mode					
Power factor	1					
Voltage distortion	≤ 1% with linear load / ≤ 3 % with non-linear load					
Crest factor	3:1					
Inverter overload capacity	105% < load ≤ 110%: transfer to bypass in 60 min 110% < load ≤ 125%: transfer to bypass in 10 min 125% < load ≤ 150%: transfer to bypass in 1 min Load > 150%: transfer to bypass in 200 ms					
Bypass overload capacity	Load ≤125% for long term; >200% load for 100 ms					
SYSTEM						
Efficiency	97%					
Max. number of parallel connections	4 units					
Transfer time	0 ms					
Protections	Short circuit protection, overload protection, over-temperature protection, battery low voltage protection, output over/low voltage protection, fans failure protection etc.					
Communications	RS485, dry contacts, SNMP					
Display	7 inches LCD touch screen					
OTHERS						
Operating temperature	0°C ~ 55°C					
Storage temperature	-25°C ~ 55°C					
Humidity	0 ~ 95%(non-condensing)					
Altitude	≤1000 m. Above 1000 m, derating 1% for each additional 100 m					
Protection level	IP 20					
Cabinet dimensions (W x D x H) (mm)	800 × 1000 × 2000			2000 × 1000 × 2000		
UPS module dimensions (W x D x H) (mm)	440 × 750 × 130					
Cabinet weight (kg)	412			920		
Power module weight (kg)	50					

All specifications are subject to change without notice.

HOME UPS LDi SERIES

1 kVA~7.5kVA

HIGHLIGHTS

- DSP Based Design
- Smart Battery Charging For Long Life
- Automation In Charge Controlling System
- Over, Heavy Load & Short Circuit Protection
- Mains/ Optional Solar (PV Panels)
- LCD Display For Continous System Status
- Noise Less Working

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HOME UPS LDi SERIES

Specificaons

MODEL	LDi1000	LDi1500	LDi2000	LDi3000	LDi5000	LDi7500
Power Rating (PF 1)	1KVA	1.5KVA	2KVA	3KVA	5KVA	7.5KVA
Power Rating (PF=0.8)	800W	1200W	1600W	2400W	4000W	6000W
DC Input						
DC Voltage (VDC)	12V	24V	24V	36V	48V	72V
AC Input						
Ac Voltage	(INV Mode) 100/285V/(UPS Mode) 190-265V @ 50Hz ± 1Hz					
Hysterisis for AC Input	Low side 10VAC & Higher side 5VAC					
AC Output						
Wave Form	Pure Sine Wave					
Frequency	50Hz ± 0.5Hz					
AC Voltage (VAC)	220V (optional ± 3V)					
Regulation	± 2%					
Power Factor	0.8 ± 0.1					
Harmonic Distortion	< 3% of T.H.D atLiner Load					
Over Load Detection						
	> 112% for 1sec, >130% ± 10% for New mSec					
	> 200% Trip Off					
Charger						
Charging Current	0 ~ 10 Amps					
Charging Voltage	0V ~ 60VDC					
Efficiency						
DC to AC (%)	>83%	>83%	>85%	>85%	>85%	>85%
Protection						
	Inside Protection Turn Off					
	Overload, Over Temperature, Short Circuit & Battery Low					
Noise Level						
	1m distance					
	< 50dBA					
LCD Display						
Status	Inverter Mode, AC Input, Ac Output, Battery Capacity, Inside Temperature, Faults condition, and Load Capacity in watts					
Alarms						
Input Dc	Beep for Every 5 Sec at Low Voltage					
INV Faults	Continous Beep					
Transfer Time						
	UPS via Mains					
	< 3mSec					
Environment						
Temprature	0°C ~ 50°C					
Humidity	0% ~ 95%					

All specifications are subject to change without notice.

Lithium Inverter LHU Plus Series

1kVA ~ 4kVA (1:1) PF 0.8 ~ 1

FEATURES

- Pure Sine wave Output
- Active Power Factor Correction charger provides No Ha
- High Efficiency gives low Electricity Bill
- Lithium Battery Compatible(Compact Design)
- Smart Battery Charging for Longer Life
- Solar Compatible
- LCD Display for Continuous System Status
- Noise Less Working
- Wi-fi Compatible (Optional)
- Both Inbuilt & External Battery Models Available

Why Lithium Baery recommended for Home UPS

- High efficiency consumes low power, saving significantly on power bills
- Higher Energy Density, leading to longer run times and lighter weights
- Higher charge/discharge efficiency
- Low Self Discharge
- Constant output power
- Very Low maintenance
- Environmental friendly

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Lithium Inverter

Specificaons

MODEL	LHU+1K	LHU+1.5K	LHU+2K	LHU+3K	LHU+3.5K
Capacity	1KVA 800W	1.5KVA 1200W	2KVA 2000W	3KVA 3000W	3.5KVA 3500W
DC Input					
DC Voltage (VDC)	12V	24V	36V	48V	48V
AC Input					
AC Voltage (VAC)	(INV Mode) 100-285V / (UPS Mode) 190-265V @ 50HZ ±1HZ				
Input Power Factor	0.99				
Input THDi	< 5%				
Hysterisis for AC Input	Low side 10VAC & higher side 5VAC				
AC Output					
Wave Form	Pure Sine Wave				
Frequency	50HZ ± 0.5HZ				
AC Voltage (VAC)	220V (optional ± 3V)				
Regulation	±2%				
Power Factor	0.8 ± 0.1 (for 1 & 1.5 KVA) / 1 (for 2KVA and Above)				
Harmonic Distortion	< 3% of T.H.D at Linear Load				
Over Load Detection	> 112% for 10sec, > 130% ± 10% for 50 mSec				
Charger					
Charging Current	Upto 30 Amps				
Charging Voltage	0V ~ 60VDC				
Efficiency					
DC to AC(%)	>90%	>90%	>92%	>92%	>93%
Protection					
Inside Protection Turn Off	Overload, Over Temperature, Short Circuit, and Battery Low				
Noise Level					
1m distance	< 50dBA				
LCD Display					
Status	Inverter Mode, AC Input, Ac Output, Battery Capacity, Inside Temperature, Faults condition, and Load Capacity in watts				
Alarms					
Input DC	Beep for Every 5 Sec at Low Voltage				
INV Faults	Continuous Beep				
Transfer Time					
UPS via Mains	< 10mSec				
Environment					
Temperature	0°C ~ 50°C				
Humidity	0% ~ 95%				

All Specifications are subject to change without prior notice

LXHI Solar Off-Grid Inverter

LXHI VP1000-12, LXHI VM2000-24 | LXHI VP1000-12, LXHI VM2000-24 | LXHI VP3000-24, LXHI VM3000-24 | LXHI VM 3000-24 Plus, LXHI VP 5000-48, LXHI VM 5000-48

- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and
- personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Battery equalization for optimized battery performance and lifecycle
- Cold start function
- Optional anti-dust kit

LXHI Solar Off-Grid Inverter selection guide

MODEL	LXHI VP 1000-12	LXHI VM 1000-12	LXHI VP 2000-24	LXHI VM 2000-24	LXHI VP 3000-24	LXHI VM 3000-24	LXHI VM 3000-24 PLUS	LXHI VP 5000-48	LXHI VM 5000-48
RATED POWER	1000VA/1000W		2000VA/2000W		3000VA / 3000W			5000VA / 5000W	
INPUT									
Voltage	230 VAC								
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)								
Frequency Range	50 Hz/60 Hz (Auto sensing)								
OUTPUT									
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%								
Surge Power	2000VA		4000VA		6000VA			10000VA	
Efficiency (Peak)	90%				93%				
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)								
Waveform	Pure sine wave								
BATTERY									
Battery Voltage	12 VDC		24 VDC					48 VDC	
Floating Charge Voltage	13.5 VDC		27 VDC					54 VDC	
Overcharge Protection	16 VDC		31 VDC		33 VDC			63 VDC	
SOLAR CHARGER & AC CHARGER									
Solar Charger type	PWM	MPPT	PWM	MPPT	PWM	MPPT		PWM	MPPT
Maximum PV Array Open Circuit Voltage	55 VDC	102 VDC	80 VDC	102 VDC	80 VDC	102 VDC	145 VDC	105 VDC	145 VDC
Maximum PV Array Power	600 W	500 W	1200 W	1000 W	1200 W	1000 W	1500 W	2400 W	3000 W
MPP Range @ Operating Voltage	N/A	15 ~ 80 VDC	N/A	30 ~ 80 VDC	N/A	30~80 VDC	30~115 VDC	N/A	60 ~ 115 VDC
Maximum Solar Charge Current	50 A	40 A	50 A	40 A	50 A	40 A	60 A	50 A	60 A
Maximum AC Charge Current	20 A	20 A	20 A	20 A	25A	25A	60 A	60 A	60 A
Maximum Charge Current	50 A	60 A	50 A	60 A	70 A	60 A	120 A	110 A	120 A
PHYSICAL									
Dimension, D x W x H (mm)	88 x 225 x 320				100 x 285 x 334		100 x 300 x 440	100 x 300 x 440	
Net Weight (kgs)	4.4	4.4	5	5	6.3	6.5	9.5	8.5	9.7
Communication Interface	USB/RS232								
ENVIRONMENT									
Humidity	5% to 95% Relative Humidity (Non-condensing)								
Operating Temperature	-10°C to 50°C								
Storage Temperature	-15°C to 60°C								

Product specifications are subject to change without further notice.

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LXHI Off-Grid Inverter

- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- Wide PV input voltage range 90VDC ~ 450VDC
- Status indication with RGB lights
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Built-in DC output for DC fan, LED bulb, router and so on.
- Parallel operation with 6 units

LXHI Off-Grid Inverter selection guide

MODEL	LX HI 8K	LX HI 11K
RATED POWER	8000VA/8000W	11000VA/11000W
PARALLEL CAPABILITY	YES, 6 units	
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	230VAC ± 5%
Surge Power	16000VA	22000VA
Efficiency (Peak)	93%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
DC Voltage	12 VDC ± 5%, 100W	
BATTERY		
Battery Voltage	48 VDC	48 VDC
Floating Charge Voltage	54 VDC	54 VDC
Overcharge Protection	66 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	8000W (4000W x 2)	11000W (5500W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum PV Input Current	27A x 2 (MAX 40A)	
Maxmum Solar Charge Current	150A	150A
Maximum AC Charge Current	120A	150A
Maximum Charge Current	150A	150A
PHYSICAL		
Dimension, D x W x H (mm)	158.4 x 503.6 x 530.8	
Net Weight (kgs)	20	
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	
STANDARD		
Compliance Safety	CE	CE

Product specifications are subject to change without further notice.

LX HI Solar Inverter

- Pure sine wave output
- Built-in MPPT solar charger
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Detachable LCD panel
- Built-in Wi-Fi for mobile monitoring (APP is available)
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel operation up to 9 units
- Anti Islanding Protection Available

LXHI Solar Inverter Selection Guide

MODEL	LXHI2KW	LXHI3KW	LXHI5KW	LXHI6KW
Phase	1-phase in / 1-phase out			
Maximum PV Input Power	3000W	4500W	6000W	6000W
Rated Output Power	2000W	3000W	5000W	6000W
Maximum Charging Power	3000W	3000W	5000W	6000W
GRID - TIE OPERATION				
Nominal DC Voltage / Maximum DC Voltage	240 VDC / 500 VDC	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC /500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
Nominal Output Voltage	220/230/240 VAC			
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26A
Power Factor	> 0.99			
Maximum Conversion Efficiency (DC/AC)	95%			
OFF - GRID OPERATION				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC			
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
Maximum AC Input Current	30 A	40 A	40 A	40 A
PV INPUT (DC)				
Maximum DC Voltage	500 VDC	500 VDC	450 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
BATTERY MODE OUTPUT (DC)				
Nominal Output Voltage	220/230/240 VAC			
Output Waveform	Pure sine wave			
Efficiency (DC to AC)	93%	93%	93%	93%
HYBRID OPERATION				
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26.1A
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC			
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC			
Maximum AC Input Current	30 A	40 A	40 A	40 A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Efficiency (DC to AC)	93%	93%	93%	93%
BATTERY & CHARGER				
Nominal DC Voltage	48 VDC			
Maximum Solar Charging Current	60 A	60 A	100 A	120 A
Maximum AC Charging Current	60 A	60 A	100 A	120 A
Maximum Charging Current	60 A	60 A	100 A	120 A
GENERAL				
PHYSICAL				
Dimension, D x W x H (mm)	140 x 295 x 468			140 x 365 x 468
Net Weight (kgs)	11	11	12	14
INTERFACE				
Parallel Function	Yes, 9 units			
Communication Port	USB, RS-232, Dry Contact and WiFi			
ENVIRONMENT				
Humidity	0 ~ 90% RH (No condensing)			
Operating Temperature	-10°C to 50°C			

Product specifications are subject to change without further notice.

LX HI Solar Inverter

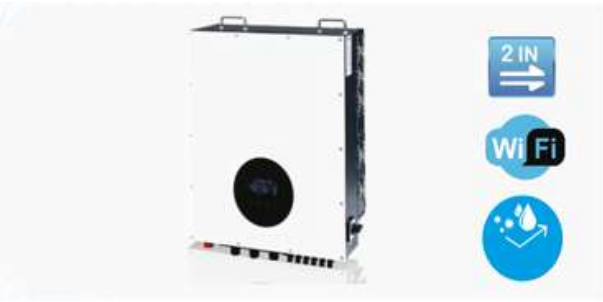
- Maximum PV input current 25A
- Dual outputs for smart load management
- Built-in WiFi for mobile monitoring (APP is available)
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Detachable LCD panel
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel operation up to 9 units

LXHI Hybrid Solar Inverter Selection Guide

MODEL	LXHI 6KW
PHASE	1-phase in / 1-phase out
MAXIMUM PV INPUT POWER	7000W
RATED OUTPUT POWER	6000W
MAXIMUM CHARGING POWER	6000W
GRID - TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	95%
OFF - GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)
Maximum AC Input Current	40A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120A
Maximum AC Charging Current	120A
Maximum Charging Current	120A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	140 x 295 x 468
Net Weight (kgs)	14
INTERFACE	
Parallel Function	Yes, 9 units
Communication Port	USB, RS-232, Dry Contact and WiFi
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10°C to 50°C

Product specifications are subject to change without further notice.

LXHI Solar 30kw



- IP65 waterproof and dustproof
- Built-in third generation SIC MOSEFET improves efficiency
- Accept dual AC inputs, utility power and generator power
- Built-in WiFi for mobile monitoring (App is available)
- User-adjustable charging current up to 50A
- Wide battery input range
- Built-in communication port for BMS (Rs485)
- Parallel operation up to 4 units
- Anti Islanding Protection Available

LXHI Solar Three Phase Hybrid inverter specification

MODEL	LXHI 30KW
MAXIMUM PV INPUT POWER	40000 W
RATED OUTPUT POWER	30000 W
MAXIMUM CHARGING POWER	30000 W
GRID - TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 26A, B: 26A, C: 26A
Number of Strings Per MPP Tracker	A: 2, B: 2, C: 2
GRID UTILITY OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	43.5 A per phase
Power Factor	0.9 lag to 0.9 lead
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96.5%
European Efficiency@ Vnominal	96%
OFF - GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	50 A
PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 26A, B: 26A, C: 26A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	97%
HYBRID OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 26A, B: 26A, C: 26A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	43.5 A per phase
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	50 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	97%
BATTERY & CHARGER	
Battery Voltage Range	500 ~ 900 VDC
Maximum Charging Current	50 A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	255 x 660 x 750
Net Weight (kgs)	73
INTERFACE	
Communication Port	RS-232, USB, DRY CONTACT, RS-485 and Wi-Fi
Intelligent Slot	Optional SNMP and MODBUS
ENVIRONMENT	
Humidity	0 ~ 100% RH
Operating Temperature	-25°C to 60°C (>45°C De-rating)
Altitude	0 ~ 1000 m**
PROTECTION CERTIFICATE	
EMI/Safety	IEC/EN 61000, IEC/EN 62920, EN 62477
Grid Connection Standard	NRS097-2-1:2017, VDE-AR-N4105, G99, IEC 61683, IEC 61727, IEC 62116

*These figures are based on VDE-4105 standard. All figures may vary depending on diferent AC voltage and country requirements.
**Power derating 1% every 100 m when altitude is over 1000m
Product specifications are subject to change without further notice.

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Power Protecve Device-PPD

Ulmate power protecon for equipments

Working principle :

PPD is an Over voltage & Under voltage cutoff device which cuts off the supply to equipment connected if the voltage goes beyond safe operating voltage. PPD is connected at the input terminals of any equipment to be protected Eg: UPS, Refrigeration equipment etc.

The main feature is that it can withstand voltages as high as 500V in single phase. Most equipment would burn at this voltage.

When the voltage come back to normal, the PPD Switches ON again automatically. It is protection device, Which safeguards against extreme high voltages.

Why should you consider using PPD before your equipment?

No problems due to voltage fluctuation.

Zero downtime Your equipment become more rugged Less service calls=Increase profitability+Increase Credibility. Better perception of quality of your system in the minds of the customers

Increase the chances of repeat sales or referral sales.

Now you can install your equipment in the worst electrical Conditions without being bothered about services calls.

How is PPD better than other products?

- Superior Protection
- Occupies less Space
- Lightweight
- Transformer less design
- Portable

Customization of PPDs

We can customize in following ways

1. Voltage Setting (higher cut off, Lower cutoff voltages)
2. Power on delay
3. Input and output terminations
4. Enclosures
5. Configurations

End use applications

- UPS
- AC drives
- Stabilizers
- Deep Freezers
- 3 Phase motors
- Compressors
- Control Panels
- Electrical Appliances (Heavy duty)
- Dish Satellite System
- Industrial Power Drivers
- Medical Equipments

Specificaons

Technology	Transformer less IC technology
Voltage Containment	440VAC
Input Voltage	50-440 AC, 50-60Hz
Operating Voltage	165V to 270V AC (Configurable)
Under Voltage Cut-Off	165V ± 2% (Configurable)
Over Voltage Cut- Off	270V ± 2% (Configurable)
Waveform Distortion	NIL
Changeover time	Less than 8 msec
Indications	LEDS
Power On Delay	3 sec (Configurable)
Overload Protection	MCB (Optional)
Surge Containment	Up to 6000V
Humidity Factor	10% to 90& (Non Condensing)
Operating Temperature	0° to 50° C
Ratings Single Phase	1KVA, 3KVA, 5KVA, 10KVA, 15KVA, 20KVA
Ratings Three Phase	7.5KVA, 12.5KVA, 25KVA (Power Relays) 5KVA, 11KVA, 22KVA, 37KVA, 55KVA, 75KVA, 100KVA (Power Contractors)
Single Phase Preventer for 3Phase Systems	Optional
Metering Indication	Optional

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Trust Lifetronics for dependable repairs, quality industrial equipment, and exceptional service.