



# THE MOST EFFICIENT FORM OF POWER BACKUP SYSTEM

## LENTO ONLINE UPS



*we make your life easy...*

**PRODUCT RANGE  
1 kVA - 3.6 MW**

**LENTO INDUSTRIES PVT. LTD.**  
[www.lentoindia.com](http://www.lentoindia.com)

## Zector Series (1 kVA ~ 3kVA)

### FEAUTES



- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function



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## Zector Series (6 kVA ~ 10kVA)

### FEAUTES

- High frequency on-line double conversion technology
- 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
- Wide input voltage range (110 ~ 288 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 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 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
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- 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 logs for check

#### Available Options

- RS232 and smart card slot include
- Optional parallel function, battery temperature compensation, USB, RS485 card, dry conta and SMS alarms



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## Victor Series (10 kVA ~ 20kVA) 3:1

### FEAUTES



- High frequency on-line double conversion technology
- 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 16 - 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
- 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 logs for check

#### Available Options

- RS232 and smart card slot include
- Optional parallel function, battery temperature compensation, USB, RS485 card, dry conta and SMS alarms



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## Rector Series (10 kVA ~ 120kVA)

### FEAUTES



- Online double-conversion with full DSP control
- IGBT inverter with output isolation transformer
- 100% unbalance load capability
- Output power factor 0.9
- Generator compatible
- Support auto-restart when mains power is restored
- ECO mode operation for energy saving
- Superior protection
- 7 inches LCD touch screen, friendly human & machine interface
- Intelligent self-diagnosing function, all kinds of failure protection, large capability of history records storage
- High MTBF (> 200,000 h)
- Low MTTR (< 0.5 h)
- Standard emergency power off function (EPO)
- Standard RS232, RS485, dry contacts communication port
- Optional SNMP communication card
- Optional N+X redundancy parallel up to 6 units
- Optional input filter to improve input power factor



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## CMS Module (6 kVA - 900 kVA)

### FEAUTES

#### GREAT FLEXIBILITY

- Modular design, hot swappable, online upgrade, super fast maintenance process, capacity expansion.
- 2N, N+1, Δ2N multiple power supply solutions;
- Any power module has a balanced distribution function for input, output and charging power;
- Standard structure design, compact footprint, less weight, meets the load-bearing requirements of ordinary buildings;
- Air flow from front to rear or top, installation against wall;
- Soft start function for Gensets;
- Energy storage function.

#### SAFETY & RELIABILITY

- Multiple redundancy measures, perfect fault isolation protection
- Advanced DSP digital control technology
- Master-slave synchronization in sequence control, multi-level decentralized control technology
- Supports integrating with one battery pack
- Adaptive lead-acid battery or lithium battery system, complete battery management function

#### HIGH EFFICIENCY & ENERGY SAVING

- ECO efficiency up to 99%, iECO efficiency up to 99.5%.
- Continuous current mode (CCM) is adopted for AC input, input THDI < 3%, input PF > 0.99, greatly reduced interference to power grid (RFI/EMI)
- Peak coefficient of output current is 3:1, greatly enhanced ability of carrying load
- Power module sleep mode settable, automatic adjustment of quantity of working modules.



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## DSM Series (80kVA ~ 640kVA)

### FEAUTES



- The industrial UPS systems produced by Lento, a professional UPS supplier, are specially designed for industrial application with high performance, high efficiency and high protection level.
- The industrial UPS system provides uninterrupted high-quality industrial uninterruptible power supply for modern manufacturing. If you are looking for different UPS for industry,

#### Stable Performance

- The industrial UPS systems have a three-phase no neutral design to solve zero ground voltage; Standardized and modular design, supporting 4 units UPS for industry in parallel; Super load capacity, output power factor 0.9

#### Powerful Functions

- The UPS for industry has voltage conditioning features that are adaptable to varied input and output voltage requirements, Compatibility for diverse industrial environments and applications.

#### High Adaptability

- The cold and hot air ducts of the industrial uninterruptible power supply operate in isolation.
- Protection level IP40, to reduce the influence of environmental factors.
- Configure output isolation transformer to realize electrical isolation.



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## LENTO INDUSTRIES PVT. LTD

Registered Office: 237, Plot No. 5550/551, School Block-2  
Welcome Plaza, Shakarpur India-110092  
Tel : +91-931181390 | Email.: info@lentoindia.com  
www.lentoindia.com.

## Manufacturing

## LENTO INDUSTRIES PVT. LTD

A-27, Sector-58, Noida, Gautam Budh Nagar, Uttar Pradesh, 201301,  
Tel : +91-931181390 | Email.: info@lentoindia.com  
www.lentoindia.com.

Toll Free No. 1800-313-0746