

LT-UPS1KVASP-240

High-efficiency 1kVA online UPS with advanced protection and smart charging.

This UPS system is a high-performance, rackmounted power solution featuring online double conversion technology with full digital control, providing reliable and uninterrupted power for critical applications. With a wide input voltage range, smart charger design, and multiple selectable output voltages, it is optimized for energy efficiency and battery performance. Equipped with advanced protection functions, versatile communication interfaces, and generator compatibility, this UPS ensures continuous operation and safety for sensitive equipment in various environments.

Features

- High power density design
- Online double conversion technology with full digital control
- Wide input voltage range: 110~300V AC
- High input power factor of 0.99 with Power Factor Correction (PFC)
- Selectable output voltages: 208/220/230/240V AC
- Smart charging system for enhanced battery performance
- Expandable charging current up to 12A for long-run units
- Emergency Power Off (EPO) function
- ECO mode for improved energy efficiency
- Compatible with generator input
- Cold start capability
- Intelligent fan speed regulation for optimized cooling
- Settable load segments (optional feature)
- User-friendly LCD interface
- Multiple communication interfaces: RS232, USB, EPO, relay card, and optional SNMP card
- Comprehensive protection features: short-circuit, overload, overheat, battery overcharge/discharge, low output voltage, and fan fault alarms.

Highlights

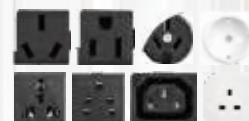
- Supports extended battery packs for longer runtime
- Auto-restart after power restoration
- Quiet mode for low-noise environments
- Built-in surge and spike protection
- Intelligent battery self-test and management
- Rack/tower convertible design
- Event logging for quick diagnostics
- High efficiency with low harmonic distortion



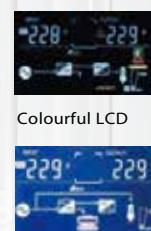
Rear Panel



Optional socket



LCD Options



Applications

- IT rooms and servers
- Telecom and network systems
- CCTV and security setups
- Industrial control equipment
- Office workstations
- Retail and POS systems
- Non-critical medical devices



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Specifications

| MODEL | LT-UPS1KVASP-240 | LT-UPS1KVASP-240 | LT-UPS2KVASP-240 | LT-UPS2KVASP-240 S | LT-UPS3KVASP-240 | LT-UPS3KVASP-240 S |
|---------------------|------------------|------------------|-------------------------------------|--|--|--------------------|
| Capacity | 1000VA/900W | | 2000VA/1800W | | 3000VA/2700W | |
| INPUT | | | | | | |
| Nominal voltage | | | 208/220/230/240Vac | | | |
| Input voltage range | | | 110~300Vac (176~264Vac @ 100% load) | | | |
| Power factor | | | ≥0.99 | | | |
| FREQUENCY | | | | | | |
| Frequency range | | | 40~70Hz (50/60Hz Auto-Sensing) | | | |
| OUTPUT | | | | | | |
| Output voltage | | | 208/220/230/240Vac | | | |
| Voltage regulation | | | ±1% | | | |
| Power factor | | | 0.9 | | | |
| Output frequency | Line mode | | 46~54Hz or 56~64Hz | | | |
| Bat. mode | | | (50/60±0.1%)Hz | | | |
| Crest factor | | | 3:1 | | | |
| Harmonic distortion | | | ≤3% Linear load | | | |
| Transfer time | AC mode | | 0ms | | | |
| Inverter to | | | 4ms (Typical) | | | |
| Output waveform | | | Pure Sinewave | | | |
| EFFICIENCY | | | | | | |
| AC mode | | 88% | 90% | | 91% | |
| Battery mode | | 85% | 87% | | 88% | |
| BATTERY | | | | | | |
| Battery number | 2 | 3 | 2 | 3 | 4 | 6 |
| Capacity (Standard) | | | | | 9Ah/12V (7Ah/12V optional) | |
| Typical recharging | | | | | 4 hours (To 90% of full capacity) | |
| Charging voltage | 27.4Vdc±1% | 41.1Vdc±1% | 7.4Vdc± | 41.1Vdc±1% | 54.8Vdc±1% | 82.2Vdc±1 |
| Charging current | 6A/12A | | | 1A | 6A/12A | 1A |
| INDICATORS | | | | | | |
| LED display | | | | | Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault | |
| LCD display | | | | | Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature& Remaining battery | |
| ALARM | | | | | | |
| Battery mode | | | | | Beeping every 4 seconds | |
| Battery low | | | | | Beeping every second | |
| Overload | | | | | Beeping twice every second | |
| Fault | | | | | Continuously beeping | |
| PHYSICAL | | | | | | |
| Dimension W×D×H | 144×293×209mm | 144×399 | | | 191×460×337mm | |
| Net weight | 4.1kg | 9.3kg | 12.5kg | 10kg | 19.5kg | 24.5kg |
| ENVIRONMENT | | | | | | |
| Operating | | | | 0 ~40 | | |
| Storage temperature | | | | −25 ~55 | | |
| Humidity range | | | | 20~95%RH @ 0~40 (Non condensing) | | |
| Altitude | | | | <1500m, derating required when >1500m | | |
| Noise level | | | | <50dB at 1 Meter | | |
| STANDARDS | | | | | | |
| Safety | | | | IEC/EN 62040-1, IEC/EN 62477-1 | | |
| EMC | | | | IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2) | | |

- When output voltage is 208Vac, need to derate to 80% of the unit capacity
- Specifications are subject to change without prior notice
- Data above are typical values for reference only, not as a basis for engineering design

