

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



SNMP



Relay card

Optional socket



LCD Options



Colourful LCD



Blue LCD



Gray LCD

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-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	4	6	6	8	8													
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	54.8Vdc±1	82.2Vdc±	82.2Vdc	109.6Vdc±1%	109.6Vdc±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		Continously 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	10kg		29.5kg													
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)																							

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

