

LT-UPS10KVA-TRB1

1-Phase Online UPS 10KVA / 2.7Kw

The LT-UPS10KVA-TRB1 is a versatile 10KVA/10KW Double Conversion Online UPS, engineered for Rack and Tower configurations to adapt seamlessly to diverse installation environments. With a Power Factor of 1.0, it ensures efficient and clean power delivery, safeguarding critical equipment from outages, voltage fluctuations, and electrical noise.

Its high energy efficiency reduces operational costs, while intelligent battery management optimizes battery performance and extends its lifespan.

Featuring an intuitive LCD interface and remote monitoring capabilities, the LT-UPS10KVA-TRB1 is ideal for mission-critical systems across data centers, telecom infrastructure, medical facilities, and industrial applications, ensuring uninterrupted power supply with reliability and precision.

Key Features

- 1- Rack/Tower Convertible Design: Easily adaptable to both horizontal (rack) and vertical (tower) installations, optimizing space and flexibility. (Tower Bracket Included.)
- 2- Power Factor 1.0: Ensures 100% efficient power delivery, maximizing operational performance without energy losses.
- 3- High Online Efficiency (Up to 95.5%): Reduces energy consumption and minimizes heat generation, lowering operational costs.
- 4- Intelligent Battery Management: Extends battery life with optimized charging cycles and real-time status monitoring.
- 5- Advanced LCD Display: Provides comprehensive system information, status alerts, and easy configuration adjustments.
- 6- Remote Monitoring and Control: Equipped with multiple communication interfaces (USB, RS232, RS485, SNMP) for seamless remote oversight.



Key Highlights

- 10KVA / 10KW Double Conversion UPS
- Supports Rack and Tower Installations
- Power Factor 1.0 for Maximum Efficiency
- Intuitive LCD Display for Real-Time Monitoring
- Intelligent Battery Management for Extended Life
- Remote Monitoring and Control Enabled

Applications

- Data Centers: Ensures uninterrupted power for servers and critical infrastructure.
- Telecom Systems: Provides reliable backup for communication networks and equipment.
- IT Infrastructure: Delivers consistent power for computers, networking, and IT equipment.
- Medical Equipment: Guarantees stable power supply for sensitive healthcare devices.



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GENERAL	
Capacity	10kVA / 10kW
Topology	Double Conversion On-Line
Cooling	Fan cooled
Dimension W x D x H (mm)	Long-run Unit: 191*460*337mm; Standard Unit: 191*460*720mm (With wheel)
Net Weight (kgs)	Long-run Unit: 14 Standard Unit: 63
Installation Type	Tower / Rack mount
INPUT	
Nominal voltage	208/220/230(Default)/240Vac
Input Voltage Range	110-300Vac(110-176Vac @ 50% load / 176-300Vac @ 100% load)
Frequency Range	40-70Hz
Harmonic distortion(THDi)	< 3%
Power Factor	>0.99
Input Connection	Terminal(L+N+G)
OUTPUT	
Output Power	10kW
Power factor	1
Output Waveform	Pure Sinewave
Online Efficiency (up to)	0.955
Economy mode efficiency	0.99
Output voltage	208/220/230(Default)/240Vac
Voltage Regulation	±1%
Output Voltage Regulation(Dynamic)	±5%
Harmonic distortion(THDv)	< 1% (Full Linear load) < 3% (Full nonlinear load)
Output Frequency	50/60Hz ± 10%(Line mode); 50/60Hz(default) ±0.1%(Battery mode)
Over Load Capability (Online mode)	105%~110%: UPS transfer to bypass after 60 minutes when the utility is normal 110%~125%: UPS transfer to bypass after 10 minutes when the utility is normal 125%~150%: UPS transfer to bypass after 1 minute when the utility is normal >150%: UPS transfer to bypass after 0.5 second when the utility is normal
Over Load Capability (Battery mode)	105%~110%: UPS after 10 minute shut down 110%~125%: UPS after 1 minute shut down 125%~150%: UPS after 10 second shut down >150%: UPS after 0.5 second shut down
Over Load Capability (Bypass mode)	105%~130%: Only Overload alarm 130%~150%: UPS after 10 minute shut down 150%~200%: UPS after 1 minute shut down >200%: after 0.5 second shut down
	Breaker 63A
Current Crest Ratio	3:1
Output Connection	Terminal (L+N+G)



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BYPASS	
Voltage range	208/220Vac Max.voltage: +25% (optional +10%,+15%,+20%) 230Vac Max.voltage: +20% (optional +10%,+15%) 240Vac Max.voltage: +15% (optional +10%) Min. voltage: -45% (optional -10%,-20%,-30%)
Frequency range	Frequency Protection Range: $\pm 10\%$
ECO Range	Rated Voltage $\pm 10\%$
BATTERY	
Capacity (Standard unit)	9Ah/12V (7Ah/12V optional)
Nominal DC Voltage	Standard Unit: 192/216/240(Default)Vdc Long-run Unit: 192(Default)/216/240Vdc
Charge Current (max.)	8A
USER INTERFACE	
Control panel LCD (English- Language)+LED	Segment code screen
Communication Interface	USB,RS232,RS485 port, Intelligent slot, Parallel port (optional), SNMP card (optional), Relay card (optional)
Emergency Power Off (EPO)	Yes
ENVIRONMENTAL	
Operating temperature	0°C~40°C
Storage temperature	-25°C~55°C (without batteries)
Humidity range	0~95%RH (Non -condensing)
Operating altitude	0~1000 meters for normal operations 1000~3000 meters performance derated
Protection Class	IP20
Noise level	1m, Online mode, full load, float charging: $\leq 50\text{dB}$
STANDARDS	
Safety	EN IEC 62040-1:2019 + A11:2021
EMC	IEC 62040-2:2016, EN IEC 62040-2:2018, C3
OTHER FEATURES	
Generator Compatible	Yes
Short Circuit	Hold Whole System
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately
Low battery voltage	Alarm and Switch off
EPO	Shut down UPS immediately
Audible & Visual alarms	Line Failure, Battery Low, Overload, System Fault



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Related Products

RELATED PRODUCTS	
LT-UPSBAT240VDC	Rack Battery Pack 240V DC
Battery Type	VRA (Lead acid maintenance free battery)
Battery Recharging time	6~8 hours to 90% full capacity
Typical battery life	3~5 years depending on charging cycles and environment
Battery Configuration	Built-in 20 x 12V / 9Ah batteries
Voltage	120Vdc
Dimensions	440 × 680 × 131mm (3U)
Weight	63 kg
Battery Quantity	20
Capacity	7Ah/9Ah (12V)
Safety	CE
Operating Environment	0°C~40°C
Relative Humidity	0~95% (Non condensing)
Noise Level	< 40dB at 1 Meter
LT-SNMP-RM	SNMP card for remote monitoring compatible with LT-UPS3KVA-TR1 and LT-UPS10KVA-TRB1



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