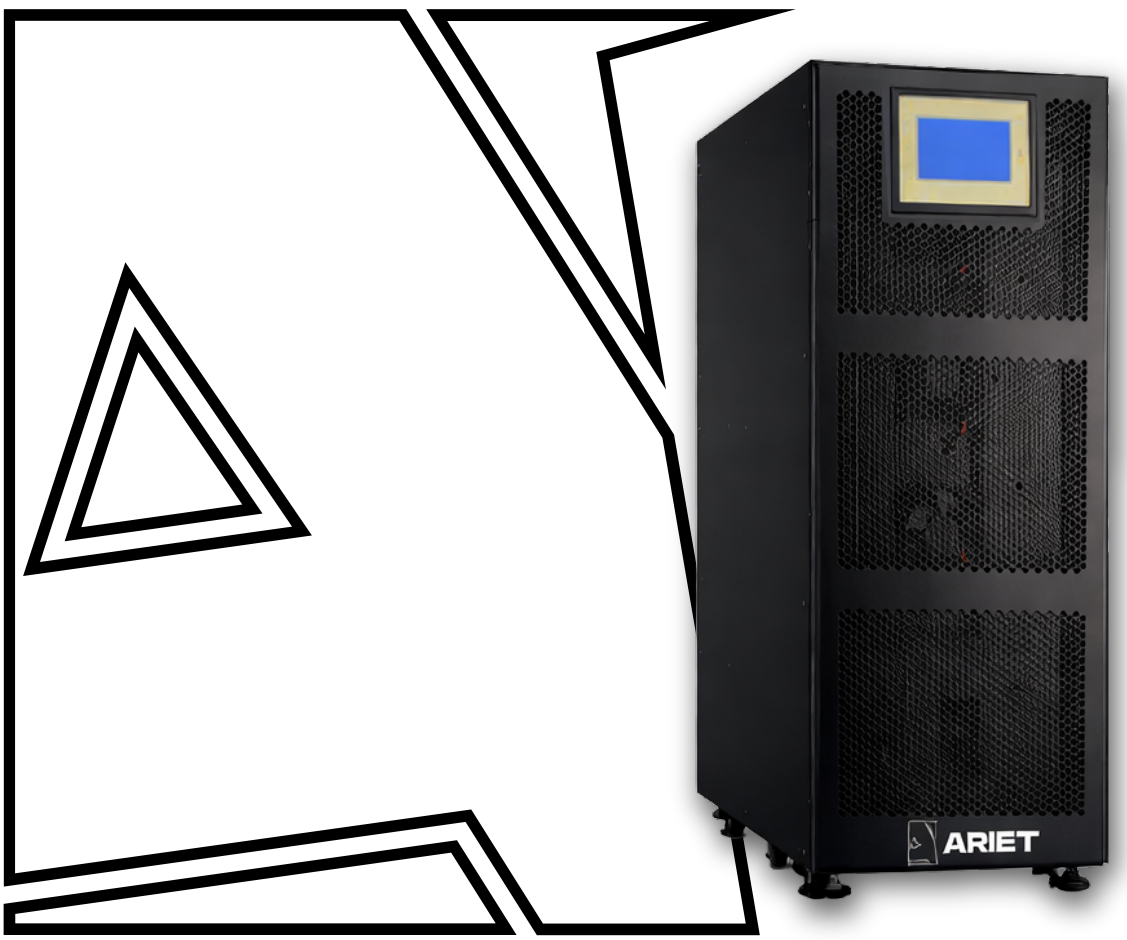
ARIKSO LT33120H

Three-phase UPS

Tower type

Online double conversion



Office and server equipment

Medical facilities and laboratories

Telecommunications systems

Reliable power supply for mission-critical equipment.

The LT series is characterized by high efficiency, a wide input voltage range, and an intelligent battery management system.

The LT33120H UPS is based on online double-conversion technology and provides high stability of the output voltage under fluctuations of the input power.

SCENARIOS

Data centers and server rooms

Mobile network operators, Internet providers

Banks, processing centers, payment systems

Power supply for controllers, control servers, monitoring systems

Hospitals, diagnostic centers, private clinics

Airports, logistics hubs, dispatch services

BENEFITS

High reliability — N+X topology for critical components (fans, control boards).

DSP technology — significantly increases system reliability and operational stability.

Energy efficiency — the **Intelligent ECO** function automatically switches the load to an energy-saving static bypass under normal mains conditions, saving up to **3%** of electricity.

Powerful rectifier — allows battery charging even at **100%** load.

Flexibility — ability to extend backup time by connecting standard battery cabinets.

Easy maintenance — hot replacement of power and control modules, fans.

Convenient control — intuitive 4.3-inch color TFT touch display.

Adaptability — wide input voltage range reduces battery switching and prolongs battery life.

Technical specifications

MODEL	LT33120H
Power	120 kVA / 120 kW (calculated at cos ϕ = 1.0)
Input	
Phase	3-phase, 4-wire + ground
Voltage range	138–485 V AC (minimum input voltage level −45%) (optional: 110–485 V AC)
Rated voltage	380 / 400 / 415 VAC
Frequency range	40–70 Hz
Input power factor	≥0,99
Harmonic distortion (THDi)	≤ 3 %
Output	
Rated voltage	380 / 400 / 415 VAC
Output power factor	1,0
Voltage regulation	±1 %
Output frequency	50 / 60 Hz
Waveform	Pure sine wave
Overload capacity	110% – 60 min; 125% – 10 min; 150% – 1 min
Efficiency (without ECO mode)	96%
Efficiency in ECO mode	99%
Crest factor	3:1
Battery	
Configuration	Operation with built-in and external batteries is possible. The UPS provides space for 120 pcs. of batteries with 9 Ah capacity each.
Battery voltage	Optional; standard range per project from 30 to 50 batteries per group. (±180V / ±192V / ±204V / ±216V / ±228V / ±240V / ±252V / ±264V / ±276V / ±288V / ±300V DC (30/32/34/36/38/40/42/44/46/48/50 pcs optional))
Battery management	Intelligent system for extending battery service life
Battery charging current	Max. 30 A
Interfaces	USB, RS232, RS485, parallel port, REPO port, LBS port (optional), feedback port, intelligent slot, SNMP card (optional), relay card (optional).
Parallel Operation	Built-in parallel operation board
Operating Conditions	
Operating temperature	0~40℃
Relative humidity	0–95% (non-condensing)
Protection	Short circuit, overload, overtemperature, low battery charge, others
Safety standards	IEC 62040-1, IEC 62040-2, IEC 62040-3 (VFI); ЭМС IEC/EN 62040-2, IEC/EN 61000-6-1/2/3/4; IEC/EN 62040-1
Installation	Floor-standing (Tower)
Physical Parameters	
Dimensions (W×D×H), mm	885 × 440 × 1200 (optional: 850 × 600 × 1550)
Weight, kg	162 (optional: 280)