



Vertiv™ Liebert® ITA
Family Brochure
ITA2 (5-30 kVA) & ITA (40 kVA)



In today's dynamic world, having basic power protection is not enough for enterprises. Business continuity is even more vital with digital trends constantly emerging and transforming the way you do business. In your critical system, you simply cannot afford downtime or waste time recovering these systems after a disruption. What you need is a robust, high-speed, reliable UPS system which offers perennial, round-the-clock protection for diverse applications.

Liebert® ITA2 5-30kVA



5-10kVA



16-30kVA

Our Solution

The Liebert ITA2 is a fully-digital, highly reliable, double conversion UPS solution that delivers clean and consistent power. This highly efficient solution is ideal for various deployments, whether it's IT racks, network closets, automation control systems, and precision instruments to small sized control rooms among other edge applications.

- Cutting-edge design enables seamless integration into various ecosystems
- Tailored for global deployment in a low carbon, compact footprint

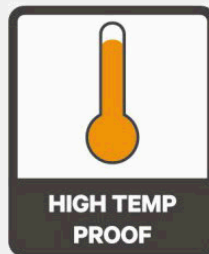
The ultimate level of engineering and dynamics that have gone beyond the development of this next-generation, innovative product facilitate top-notch availability and excellent performance at a low cost of ownership, giving you ultimate peace of mind.

Application Areas

- Edge Networks
- Data Centers
- Automation Industries
- Server Farms
- Workstations
- Telecom

Liebert ITA2:

Robust power protection solution in a compact package

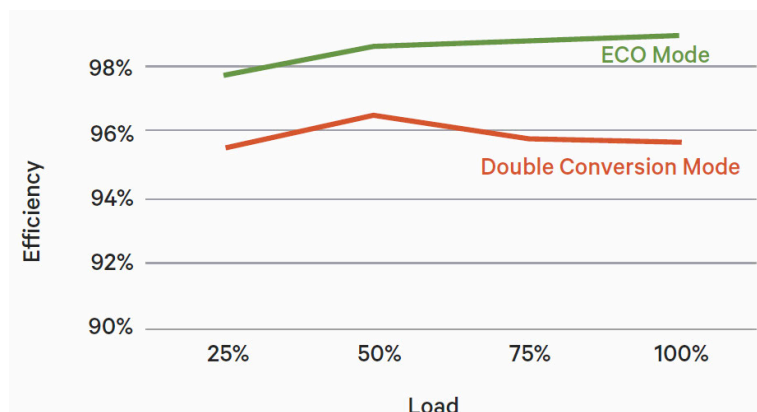


Key Features

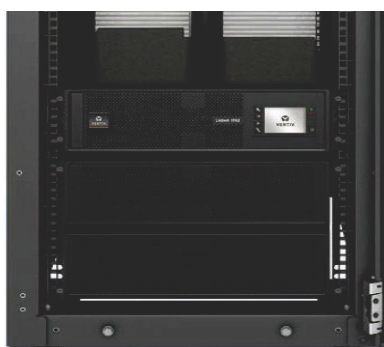
- Robust structure with cutting edge channelized airflow design
- Wide input voltage range, making it immune to grid interference
- Rack-tower design for installation flexibility
- Able to deliver both three-phase and single-phase output²
- 0.99 input power factor for better grid or generator compatibility
- Powerful charging capability for minimum battery recharging time
- Programmable output outlets/terminals with cascade protection to protect key devices during heavy load²
- Integrated Ethernet port with HTTP protocol compatibility and streamlined remote monitoring
- Easy to install, repair, and maintain
- Compliance with seismic conduction and vehicle carrying test
- Gravity sense LCD Display
- Turnkey Dust-resistant design with ability to operate under high ambient temperature of up to 50 °C

The Most Efficient UPS

Liebert® ITA2 offers best-in-class efficiency of up to 96.5% in double conversion mode over a wide range of load conditions, resulting in significant OPEX cost savings. Liebert ITA2's ECO mode of operation provides a superlative efficiency of up to 99%.



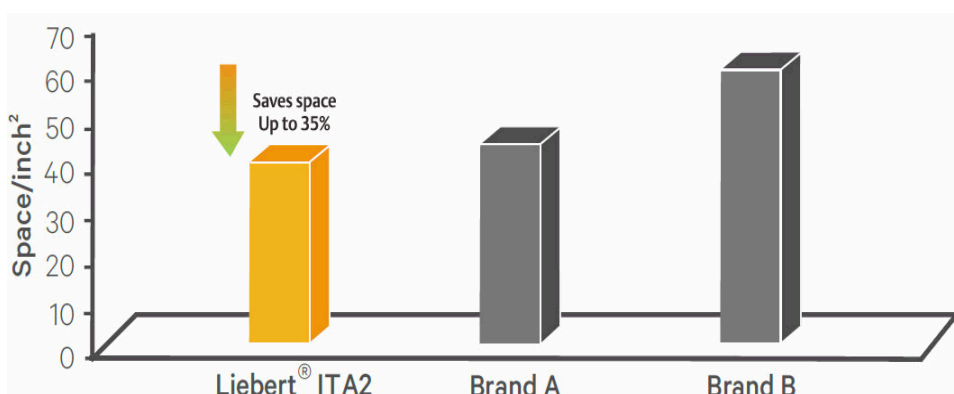
The Most Flexible UPS



*Shown here the UPS and battery cabinets in a tower arrangement.

- Optimized modules minimize the amount of used space in the rack
- Support base makes it convenient and stable to place on the floor
- Adjustable display panel ensures readability and ease of use
- Configuration easily extends to batteries and POD cabinet

The Most Compact UPS





Available in different wattage variations, Liebert® ITA2 is ideal in edge of networks, light industrial applications and data centers, blending easily into any virtualized environment and providing comprehensive power protection at lower operating costs.

Reliability in a Compact Footprint

- Fully-digital control with high output voltage precision
- Manages all the nine power problems including sagging, spikes, and fluctuations
- Built-in Ethernet port includes browser support compatibility with intelligent cards (SIC card, UNITY-DP, RDU_SIC cards, etc.,)
- Built-in-power charger for fast charging reduces the battery charging time
- Prolonged backup time through cascaded connection
- Quality-tested for 1000 hours for extreme durability and extreme tolerance even in stringent condition

High Availability

Early Warning of UPS System Status

Multiple audible and visual alarms immediately alert for critical issues.

Periodic Battery Testing

Provides automatic and manual self-diagnostic battery testing for peace of mind.

Power-Factor Correction

Prevents noise, harmonics, and distortion from being transferred to connected loads or fed back to the utility.

Lightning and Surge Protection

The transient voltage surge suppression circuitry inside the Liebert ITA2 provides additional protection for the connected equipment.

Wide Input Voltage Window

Prolongs battery life by allowing the UPS to maximize the use of utility power before being transferred to the battery when the input voltage exceeds the specified limits.

Technical Specifications

Model	5	6	10	16	20	30
Long/Standard Backup Model	ITA-05k00AL1102P00/ ITA-05k00AE1102P00	ITA-06k00AL1102P00/ ITA-06k00AE1102P00	ITA-10k00ALA102P00/ ITA-10k00AEA102P00	ITA-16k00AL3A02P00/ ITA-16k00AE3A02P00	ITA-20k00AL3A02P00/ ITA-20k00AE3A02P00	ITA-30k00AL3302P00

Input Parameters

Nominal Input Voltage (V)	220/230/240 VAC 1-Phase, 2 Wire	220/230/240 VAC 1-Phase, 2 Wire	380/400/415 VAC 3-Phase, 4 Wire			
Input Voltage Range (V)	176-288 VAC at full load; 100-176 VAC at linear derating; 100 VAC at half load					
Nominal Input Frequency (Hz)	50/60					
Input Frequency Range (Hz)	40-70					
Input Power Factor (kW/kVA)*	0.99					
Current THD at Full Linear Load (THDi%)*	<3					

Battery Parameters

Battery Blocks Per String	12, 16, 20		24, 32, 34, 36, 38, 40		32, 34, 36, 38, 40
Battery Charger Max. Power (A)	= 5 A (Long backup model) = 2 A (Standard model)	= 8 A (Long backup model) = 4 A (Standard model)	= 13 A (Long backup model) = 5 A (Standard model)	= 13 A	
Battery Option	P/C : ITA-BCI0020K01 (built-in battery module of 16 block X 12 V X 9 AH) Battery cabinet Dimensions in rack arrangement - 430(W) x 739(D) x 85(H)				Only external battery cabinet

Output Characteristics

Nominal Output Voltage (V)	220/230/240 (1-phase)	220/230/240 VAC (1-Phase), 380/400/415 VAC (3-Phase)	380/400/415 VAC (3-Phase)
Nominal Output Frequency (Hz)	50/60		
Rated Power Factor (kW/kVA)	Unity		
Voltage Harmonic Distortion (%)	<2% for Linear loads & <5% for Non-linear loads		
Overload Capacity	At 25°C: 105% ~ 125%, 5 min; 125% ~ 150%, 1 min; 150%, 200 ms		
Crest Factor	3:1		

Efficiency

Online Mode Efficiency	Up to 95.5%	Up to 95.8%	Up to 96.2%	Up to 96.5%
ECO Mode Efficiency	Up to 99%			

Dimensions and Weight

Dimensions (WxDxH) in mm Rack Mounted Arrangement	430x450x85	430x560x85	430x570x130	
Weight (kg)	11	15	23	23.5

General

Noise at 1 m (dBA)	=55	=58	<60	
Operating Temperature (°C)	0 ~ 50			
Relative Humidity (%RH)	5 ~ 95, non-condensing			
Altitude (m)	=3000 m			
General and Safety Requirements for UPS	IEC/EN 62040-1			
EMC requirements for UPS	IEC/EN 62040-2			
UPS Classification according to IEC 62040-3	VFI-SS-111			

Note: Specification are subject to change without any further notification.

*Conditions apply: (1) with ABS certification (2) Not Available in 30 kVA

Key Features

- Embraces advanced DSP processor
- 0.9 output power factor
- Double conversion efficiency up to 95%
- ECO mode efficiency up to 98.5%
- Input Power factor up to 0.99
- Input current THD is <4%*
- High capacity battery charger: 40 kVA ~ 6 kW
- Flexible mounting arrangement i.e. rack/ tower
- Integrated parallel and LBS ports
- Comprehensive value added options including LPD, UPD etc
- Easy site installation and configuration

Liebert ITA is a full featured transformer free scalable UPS designed to offer compact, efficient, and reliable power to mission critical applications. It features double conversion online design that ensure continuous high quality power even when the main AC power fails.

Utilize state of the art technology and components to withstand fluctuation of input main voltage. Extra wide input voltage and frequency range effectively reduces the discharging period of battery; thus prolong battery life.

Deliver 0.9 Power factor that can power 12.5% more load than traditional UPS, makes it suitable for latest server applications.

Additionally, its high power density allows to integrate more active components to the rack.

Liebert ITA achieves up to 95% efficiency in double conversion mode and up to 98.5% in ECO mode ensuring effective load protection while reducing the total cost of ownership (TCO) and environmental impact.



Technical Specifications

Model	40 kVA
Input Parameters	
Rated Voltage	380/400/415 Vac, three-phase four wire
Input Voltage Range	Three-phase 305 Vac - 477 Vac
Input Frequency Range	40 Hz - 70 Hz
Input Power Factor	>0.99 at Full Load
Battery Parameters	
Battery Type	Lead Acid Maintenance Free
Charging Capability	Max Charging Power 6 kW
No. of Battery	30 - 40 (Selected on Site)
Output Parameters	
Rated Power (kVA/kW)	40/36
Rated Voltage	Three Phase 380/400/415 Vac
Voltage Precision	1%
Frequency Precision	0.25%
Output Voltage THD	<2% for Linear Load and <5% for Non Linear Load
Load Crest Factor	3:1 Comply with IEC 62040-3
Overload Performance (% of Rated Load)	105%-125%; 5 mins, 125%-150%; 1 min
System Parameters and Standards	
Conversion Type	Online Double Conversion
Parallel Mode	1+1
Installation Mode	Rack/Tower Convertible
System Efficiency @100%	Up to 95%
Noise (dB)	<58 dB
LCD Display	Yes (Standard)
General Safety	IEC/EN62040-1
Electromagnetic Compatibility	IEC/EN62040-2
Performance and Test	IEC/EN62040-3 (VFI SS 111)
Protection Level	IP 20
Dimension (mm)	435 x 800 x 173 (W x D x H) in rack mount arrangement
Net Weight (kg)	72
Communication Option	
Interface Type	USB/Intelligent Slot (Dry Contact Card/ Modbus Card/ RS 485 Card)
Management Software	Site Monitor
Environmental Parameters	
Operating Temperature*	0 - 40 °C
Relative Humidity	0-95%, non-condensing
Max Altitude	1000 (derate power by 1% per 100 m when above 100 m)

*Specifications are subject to change without any prior notification.



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