



Vertiv™ Liebert®

ITA2 UPS

5-40 kVA

Flexible power protection for
Rack or Tower installation



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, highly-efficient, reliable UPS system which offers perennial, round-the-clock protection for diverse applications.

Our Solution

The Vertiv™ Liebert® ITA2 is a fully-digital, highly reliable, double-conversion UPS solution that provides clean and consistent power. This highly efficient solution is ideal for various deployments, including 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 innovative, next-generation product facilitate top-notch availability and excellent performance at low ownership costs, giving you ultimate peace of mind.

Liebert® ITA2 5-40 kVA



5-10 kVA



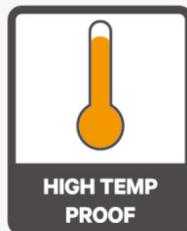
16-40 kVA

Application Areas

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

Liebert® ITA2

Robust power protection solution in a compact package

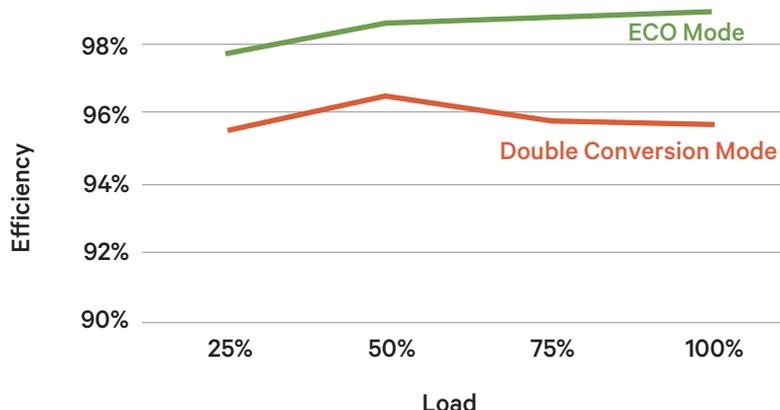


Key Features

- 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 communication port for 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

Vertiv™ 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 integrated ECO mode of operation further enhances efficiency of up to 99%.



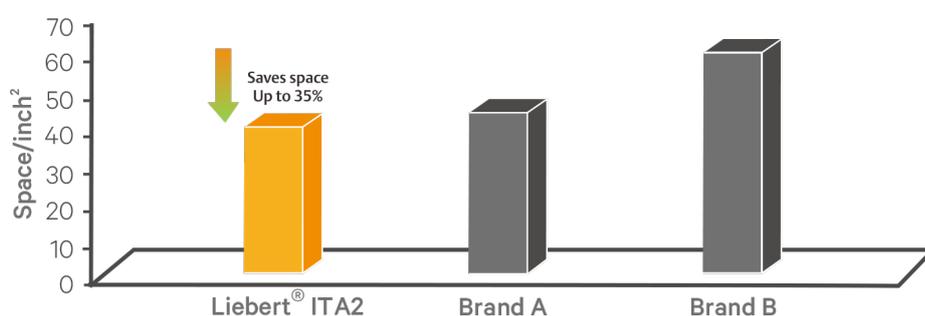
The Most Flexible UPS



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

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

The Most Compact UPS





Dust-resistant Design

Available in different wattage variations, Vertiv™ Liebert® ITA2 is ideal in the edge of networks, light industrial applications and data centers, easily blending into any virtualized environment and providing comprehensive power protection at reduced 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 intelligent communication card for remote monitoring and management
- 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 tolerance even in stringent conditions

High Availability

Early Warning of UPS System Status

Multiple audible and visual alarms instantly alert for critical issues.

Periodic Battery Testing

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

Power-Factor Correction

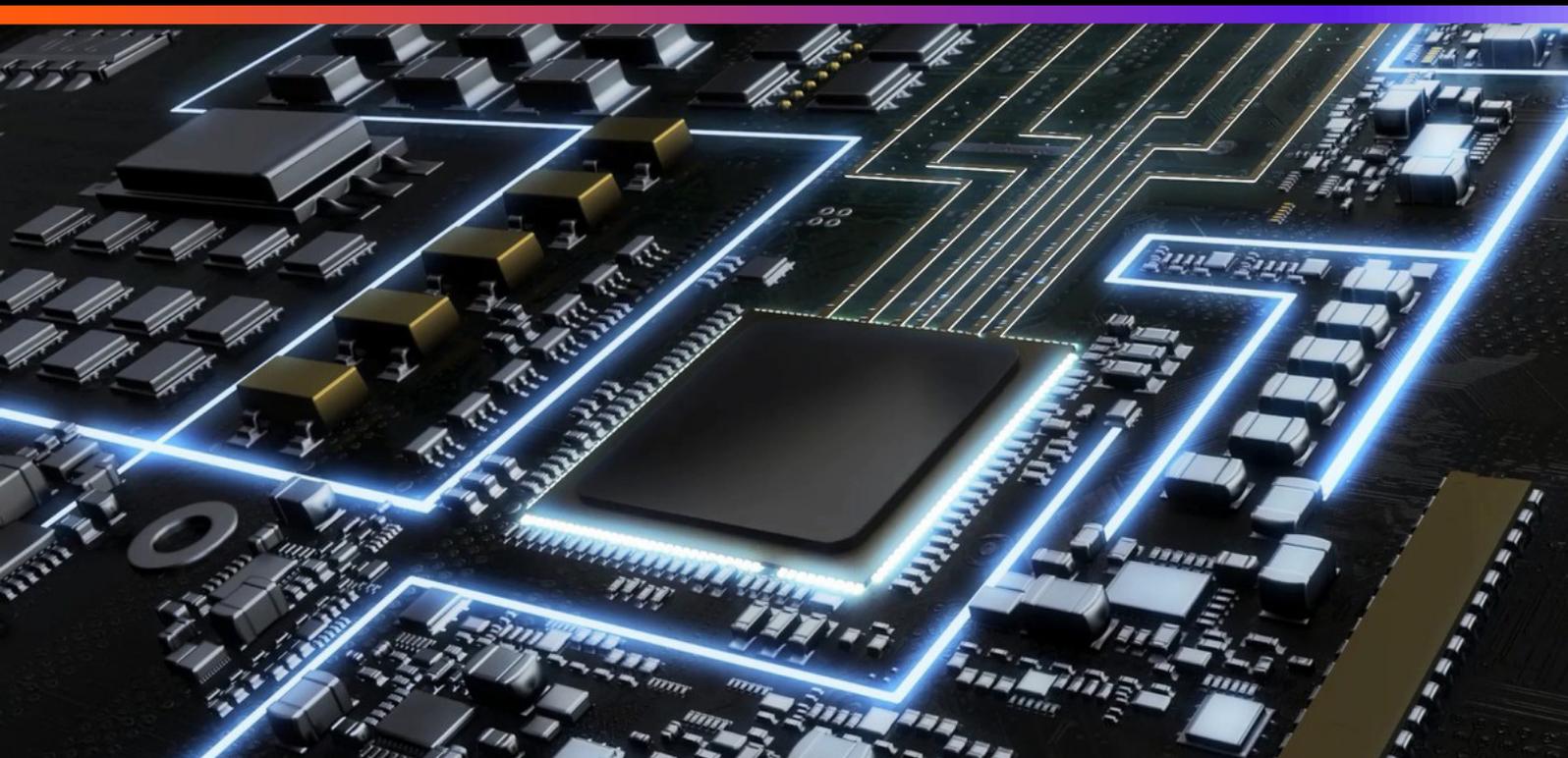
Prevents noise, harmonics, and distortion from being transferred to connected loads or fed back to the utility.

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.



Intelligent Communications

The Vertiv™ Liebert® ITA2 offers an intuitive control panel, network connectivity communications card, and optional software monitoring, all designed to ensure visibility, control and peace of mind for manned or unmanned locations. You can even monitor key environmental and room conditions.

Vertiv™ Power Insight

Vertiv™ Power Insight is a web-based solution for managing and monitoring up to 100 Vertiv™ UPSs and rPDUs that provides a quick way to safely shutdown IT devices based on user-configured parameters. It helps improve availability and simplifies the monitoring and management of mission-critical IT equipment. Additionally, if VMware™ is your virtualization platform of choice, you can benefit from the seamless integration offered by the Vertiv Power Insight vCenter Plugin.



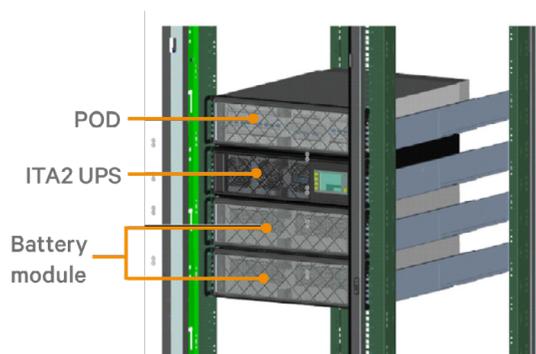
The vCenter Plugin provides single-pane-of-glass monitoring and management of UPS and rPDU infrastructure directly within the vCenter Management Platform.

It can also be configured to trigger automatic Virtual Machine (VM) shutdown or migration (using vMotion) based on alarms or events communicated by Vertiv Power Insight.

POD - Optional Accessories

The Liebert POD maintenance bypass and output distribution unit ensures continuous uptime when your critical system cannot afford any power loss without power, even for scheduled UPS maintenance.

It allows you to manually transfer connected equipment to utility power via a maintenance bypass switch, permitting scheduled service or UPS replacement without shutting down connected equipment.



Battery Backup Table

| UPS Model | Battery Modules | Backup Time in Minutes | | | | | | | | | |
|-----------|-----------------|------------------------|--------|------|--------|-------|--------|-------|--------|-------|--------|
| | | 5kVA | 4.5kVA | 4kVA | 3.5kVA | 3kVA | 2.5kVA | 2kVA | 1.5kVA | 1kVA | 0.5kVA |
| 5kVA | 1 | 6.8 | 7.8 | 9.2 | 11.2 | 13.9 | 17.9 | 24.3 | 35.6 | 58 | 122.4 |
| | 2 | 18 | 20.9 | 24.6 | 29.7 | 36.5 | 46 | 59.7 | 81.7 | 126.4 | 278.8 |
| | 3 | 31.9 | 36.6 | 42.6 | 50.2 | 60.2 | 74.1 | 94.5 | 128.3 | 207 | 435.7 |
| | 4 | 46.3 | 52.6 | 60.3 | 70.2 | 83.5 | 102.2 | 130.3 | 182.7 | 287.6 | 592.5 |
| | 5 | 60.4 | 68.1 | 77.8 | 90.3 | 107 | 131.4 | 171.6 | 237.1 | 368.2 | 749.3 |
| | 6 | 74.4 | 83.7 | 95.4 | 110.4 | 131.5 | 164.6 | 212.9 | 291.5 | 448.8 | 906.1 |

| UPS Model | Battery Modules | Backup Time in Minutes | | | | | | | | | |
|-----------|-----------------|------------------------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | 6kVA | 5.4kVA | 4.8kVA | 4.2kVA | 3.6kVA | 3kVA | 2.4kVA | 1.8kVA | 1.2kVA | 0.6kVA |
| 6kVA | 1 | 5.1 | 6.1 | 7.1 | 8.6 | 10.8 | 13.9 | 19 | 28 | 46.9 | 101 |
| | 2 | 14 | 16.1 | 19.1 | 23 | 28.6 | 36.5 | 48.4 | 67 | 103.9 | 228.2 |
| | 3 | 24.7 | 28.7 | 33.6 | 40 | 48.5 | 60.2 | 77.6 | 105.6 | 167.6 | 359.7 |
| | 4 | 36.7 | 42 | 48.7 | 57 | 68 | 83.5 | 106.9 | 147.8 | 235.1 | 491.2 |
| | 5 | 48.8 | 55.3 | 63.3 | 73.6 | 87.5 | 107 | 138.3 | 193.5 | 302.6 | 622.8 |
| | 6 | 60.5 | 68.2 | 77.9 | 90.4 | 107.1 | 131.5 | 172.9 | 239.1 | 370.1 | 754.3 |

| UPS Model | Battery Modules | Backup Time in Minutes | | | | | | | | | |
|-----------|-----------------|------------------------|------|------|------|------|------|------|-------|-------|-------|
| | | 10kVA | 9kVA | 8kVA | 7kVA | 6kVA | 5kVA | 4kVA | 3kVA | 2kVA | 1kVA |
| 10kVA | 2 | 4.8 | 5.5 | 7.4 | 10.2 | 14 | 18 | 24.6 | 36.5 | 59.7 | 126.4 |
| | 3 | 8.8 | 10.2 | 13.6 | 18.5 | 24.7 | 31.9 | 42.6 | 60.2 | 94.5 | 207 |
| | 4 | 13.7 | 15.9 | 21.1 | 28.4 | 36.7 | 46.3 | 60.3 | 83.5 | 130.3 | 287.6 |
| | 5 | 19.4 | 22.4 | 29.7 | 39.3 | 48.8 | 60.4 | 77.8 | 107 | 171.6 | 368.2 |
| | 6 | 25.8 | 29.6 | 38.6 | 50.6 | 60.5 | 74.4 | 95.4 | 131.5 | 212.9 | 448.8 |

| UPS Model | Battery Modules | Backup Time in Minutes | | | | | | | | | |
|-----------|-----------------|------------------------|---------|---------|---------|--------|------|--------|--------|--------|--------|
| | | 16kVA | 14.4kVA | 12.8kVA | 11.2kVA | 9.6kVA | 8kVA | 6.4kVA | 4.8kVA | 3.2kVA | 1.6kVA |
| 16kVA | 4 | 9.5 | 11 | 13 | 15.6 | 19.4 | 24.8 | 33.8 | 48.7 | 77.7 | 169.6 |
| | 6 | 16.8 | 19.6 | 23.1 | 27.8 | 34 | 42.9 | 56.2 | 77.9 | 121.7 | 271.9 |
| | 8 | 25.3 | 29.3 | 34.4 | 40.8 | 49.2 | 60.7 | 78.1 | 107.3 | 173.2 | 374.1 |
| | 10 | 34.4 | 39.5 | 45.9 | 53.8 | 63.9 | 78.4 | 100.3 | 138.9 | 225.2 | 476.3 |
| | 12 | 43.6 | 49.7 | 57.2 | 66.5 | 78.7 | 96.1 | 122.4 | 173.7 | 277.2 | 578.6 |

| UPS Model | Battery Modules | Backup Time in Minutes | | | | | | | | | |
|-----------|-----------------|------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| | | 20kVA | 18kVA | 16kVA | 14kVA | 12kVA | 10kVA | 8kVA | 6kVA | 4kVA | 2kVA |
| 20kVA | 4 | 6.9 | 8 | 9.5 | 11.5 | 14.3 | 18.3 | 24.8 | 36.7 | 60.3 | 130.3 |
| | 6 | 12.3 | 14.3 | 16.8 | 20.4 | 25.3 | 32.3 | 42.9 | 60.5 | 95.4 | 212.9 |
| | 8 | 18.5 | 21.5 | 25.3 | 30.5 | 37.5 | 46.8 | 60.7 | 84 | 131.8 | 295.5 |
| | 10 | 25.3 | 29.3 | 34.4 | 41 | 49.7 | 61.1 | 78.4 | 107.6 | 173.4 | 378.1 |
| | 12 | 32.6 | 37.5 | 43.6 | 51.4 | 61.6 | 75.2 | 96.1 | 132.3 | 215.1 | 460.7 |

| UPS Model | Battery Modules | Backup Time in Minutes | | | | | | | | | |
|-----------|-----------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 30kVA | 27kVA | 24kVA | 21kVA | 18kVA | 15kVA | 12kVA | 9kVA | 6kVA | 3kVA |
| 30kVA | 4 | 3 | 3.5 | 4 | 5 | 6.5 | 8.5 | 11.5 | 17.5 | 30.5 | 70 |
| | 8 | 8.5 | 10 | 11.5 | 14 | 17.5 | 23 | 31 | 45 | 71.5 | 156.5 |
| | 12 | 15 | 17.5 | 21 | 25 | 31 | 39.5 | 51.5 | 71.5 | 111.5 | 250.5 |
| | 16 | 23 | 26.5 | 31 | 37 | 45 | 56 | 72 | 99 | 159.5 | 345 |
| | 20 | 31 | 36 | 41.5 | 49 | 58.5 | 72 | 92.5 | 128.5 | 207 | 439 |

| UPS Model | Battery Modules | Backup Time in Minutes | | | | | | | | | |
|-----------|-----------------|------------------------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| | | 40kVA | 36kVA | 32kVA | 28kVA | 24kVA | 20kVA | 16kVA | 12kVA | 8kVA | 4kVA |
| 40kVA | 4 | 1.5 | 2 | 2.5 | 3 | 4 | 5.5 | 7.5 | 11.5 | 21 | 51.5 |
| | 8 | 5.5 | 6.5 | 7.5 | 9.5 | 11.5 | 15 | 21 | 31 | 52 | 112 |
| | 12 | 10 | 11.5 | 14 | 17 | 21 | 27 | 36.5 | 52 | 82 | 184 |
| | 16 | 15 | 18 | 21 | 25.5 | 31.5 | 39.5 | 52 | 72 | 113 | 256 |
| | 20 | 21 | 24.5 | 28.5 | 34.5 | 41.5 | 52 | 67 | 92.5 | 149 | 328 |
| | 40 | 52 | 59 | 67.5 | 78 | 93 | 113.5 | 149.5 | 210 | 330 | 687.5 |

Note: Battery autonomy times and 5 year design life are based on operation at 25°C. Approximate autonomy times are based on fully charged batteries and can vary +/-5% due to battery manufacturing variances.

Technical Specifications

| Nominal Ratings (kVA) | 5 | 6 | 10 | 16 | 20 | 30 | 40 |
|---|--|--------------------|---|---|---------------------------------|--|--------------------|
| Long Backup Model | ITA-05k00AL1102P00 | ITA-06k00AL1102P00 | ITA-10k00ALA102P00 | ITA-16k00AL3A02P00 | ITA-20k00AL3A02P00 | ITA-30k00AL3302P00 | ITA-40k00AL3302P00 |
| Part Number | 01202670 | 01202671 | 01202672 | 01202682 | 01202683 | 01202660 | 01202897 |
| 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 | | 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) ³ | 0.99 | | | | | | |
| Current THD at full linear load ³ | <3 | | | | | | |
| Battery | | | | | | | |
| Battery Blocks Per String | 12*, 15, 16, 17, 18, 19, 20 | | | 24*, 30, 32, 34, 36, 38, 40 | | 32-40 | 24-40** |
| Battery Charger Max. Power (A) | 5 | | 8 | | 13 | | |
| 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 750 (D) x 85 (H) | | | | | Only external battery cabinet | |
| Output | | | | | | | |
| Nominal Output Voltage (V) | 220/230/240 VAC (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%, 10 min; 125~150%, 1 min; >150%, 200 ms | | | | | 105~125%, 10 min; 125~150%, 1 min; 150~200%, 5 s | |
| 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 (W x D x H) in mm-Rack Mounted Arrangement | 430 x 480 x 85 | | 430 x 590 x 85 | | 430 x 600 x 130 | | 430 x 730 x 130 |
| Weight (kg) | 11 | | 15 | | 23 | | 23.5 |
| General | | | | | | | |
| Nosie at 1 m (dBA) | <55 | | | <58 | | <60 | <63 |
| Operating Temperature (°C) | 0 ~ 50* | | | | | | |
| Relative Humidity (%RH) | 5 ~ 95, non-condensing | | | | | | |
| Altitude (m) | 3000 without derating | | | | | | |
| 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

*Derating conditions apply ** 24-26-28-30 with de-rating (1) with ABS certification (2) Not Available in 30 & 40 kVA (3) Conditions apply

