



**VERTIV™**

**Liebert®**

ITA2™ UPS  
5-20kVA Compact,  
Efficient & Robust UPS  
For Critical Applications



Enabling Tomorrow's  
**CRITICAL EDGE  
INFRASTRUCTURE**



We helped some of the largest names in the industry bring new capacity online faster and at a lower cost when search and social media increased demand for storage and computing.



We were the first to introduce an integrated enclosure system to distributed networks.



Our portfolio spans power, thermal and infrastructure management products, software and solutions.



Protecting your critical technologies takes more than just great software and equipment. It takes a level of experience that only comes from years of finding solutions when the industry needed them most. We were the first to protect mainframes with precision cooling systems.



And now as challenges and demands grow, we continue to find better ways to help you strengthen your most vital applications. Formerly the Network Power business of Emerson, we've brought together the most trusted and experienced names in critical infrastructure.



Complemented by a network of nearly 250 service centers worldwide. It's a combination of experience and resources that allow us to better adapt to what's needed, anticipate what's next and continue to find solutions in ways other companies simply can't.



In today's dynamic world, it is not enough for enterprises to have basic power protection. With digital trends constantly emerging and transforming the way you do business, business continuity is all the more vital. You simply cannot afford downtime in your critical system 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 to diverse application needs.

### 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.

### Liebert® ITA2™ 5-20kVA



5-10kVA



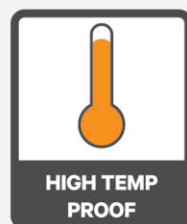
16-20kVA

### Application Areas

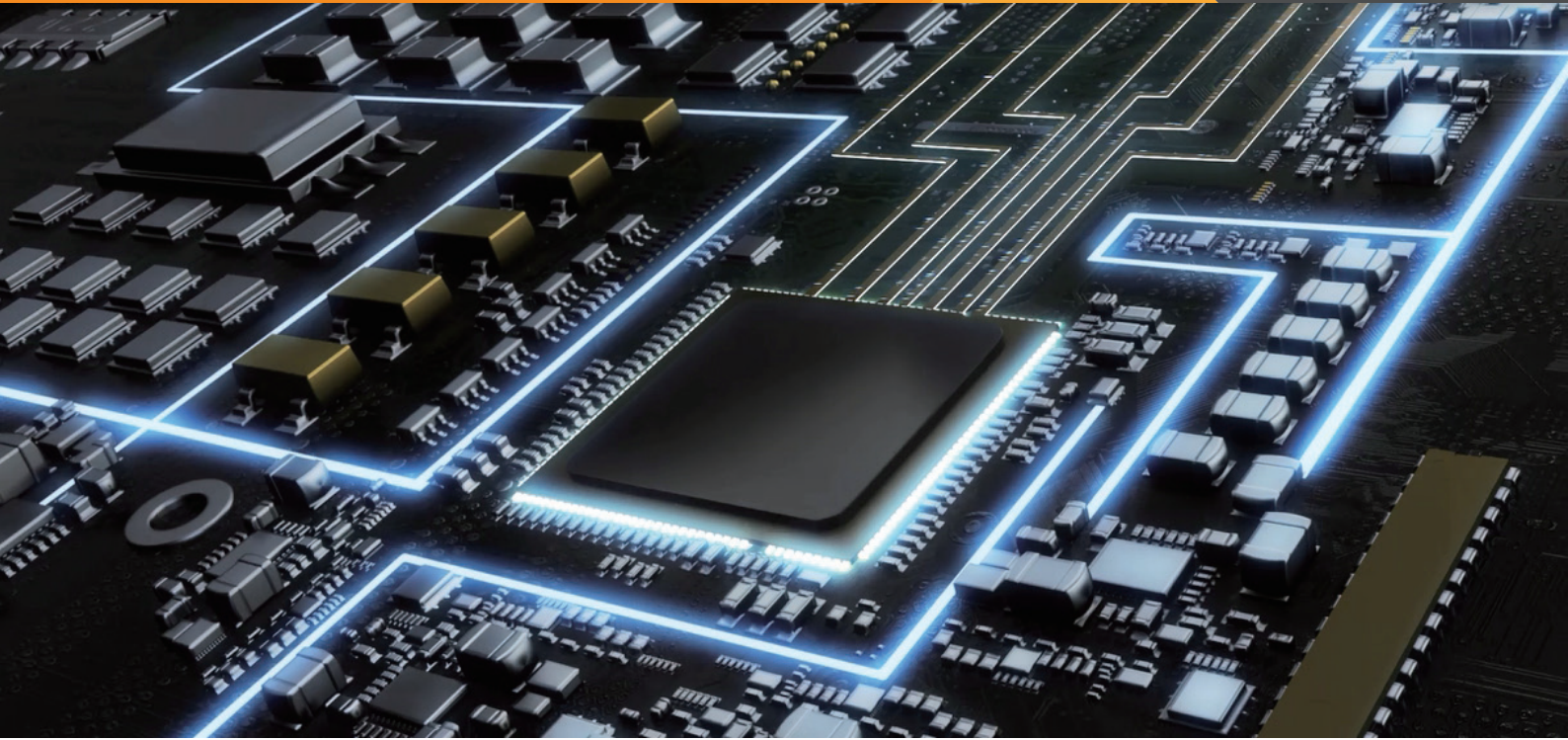
- Edge Networks
- Data Centers
- Automation industries
- Server Farms
- Workstations
- Telecom
- Marine<sup>1</sup>

### Liebert® ITA2™

#### Robust power protection solution in a compact package





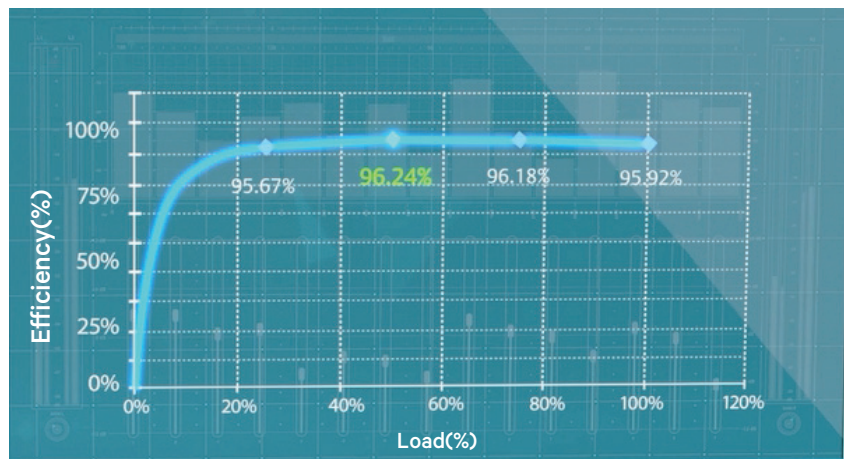


## KEY FEATURES

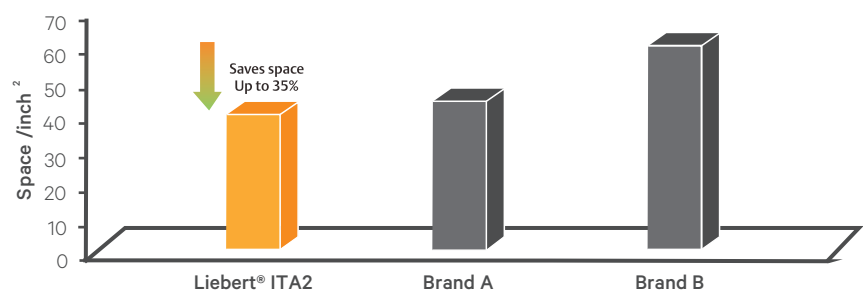
- Robust structure with cutting edge channelized airflow design
- Wide input voltage range, making it immune to grid interference
- Programmable output outlets/ terminals with cascade protection to protect key devices during heavy load
- Integrated Ethernet port with HTTP protocol compatibility & streamlined remote monitoring
- Easy to install, repair, and maintain
- Compliance with seismic conduction & vehicle carrying test
- Gravity sense LCD Display
- Turnkey Dust-proof 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 96.3% over a wide range of load conditions, resulting in significant OPEX cost savings. ITA2™'s integrated Smart Sleep technology in ECO mode provides a superlative efficiency of up to 99%.



### The Most Compact UPS





## Dust-Proof Design

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 compatibility with intelligent cards (SIC card, RDU\_SIC cards, etc.,) with browser support.
- Built-in-power charger for fast charging reduces 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 you to 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 passed on to connected loads or from being 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 transferring to the battery when the input voltage exceeds the specified limits.



## POD-Optional Accessories

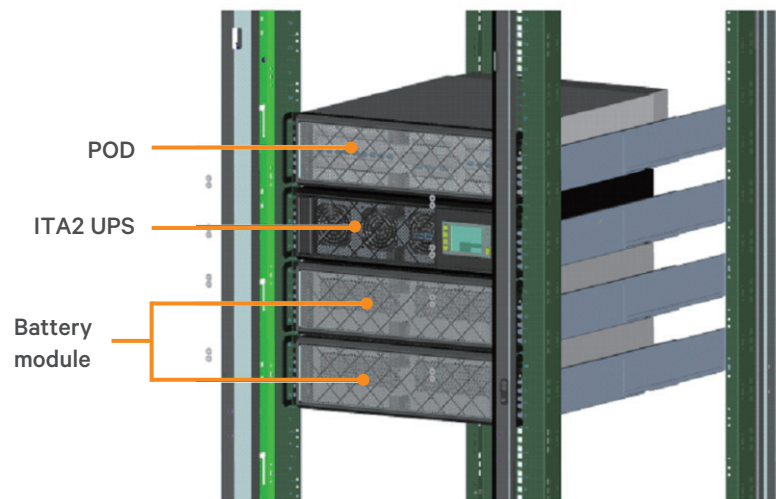
When your critical system can not afford any power loss without power, even for scheduled UPS maintenance, the Liebert POD Maintenance Bypass and Output Distribution Unit ensures continuous uptime.

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

Features include:

- 2U height minimizes rack space requirements
- Easy plug-and-play installation

Isometric view of Liebert® ITA2 UPS installed in a rack-mounted alignment along with POD and Battery modules



## Battery Backup Table

| Model | Model Number | Backup Time |        |      |        |       |        |       |        |       |        |
|-------|--------------|-------------|--------|------|--------|-------|--------|-------|--------|-------|--------|
|       |              | 5kVA        | 4.5kVA | 4kVA | 3.5kVA | 3kVA  | 2.5kVA | 2kVA  | 1.5kVA | 1kVA  | 0.5kVA |
| 5kVA  | 1            | 5.5         | 6.5    | 7.5  | 9.5    | 11.5  | 15.0   | 20.5  | 30.0   | 49.5  | 103.5  |
|       | 2            | 15.0        | 17.5   | 20.5 | 25.0   | 30.5  | 39.0   | 51.0  | 70.0   | 108.0 | 235.0  |
|       | 3            | 27.0        | 31.0   | 36.0 | 42.5   | 51.0  | 63.0   | 80.5  | 110.0  | 177.0 | 368.5  |
|       | 4            | 39.5        | 45.0   | 51.5 | 60.0   | 71.5  | 87.0   | 104.0 | 156.5  | 246.5 | 502.0  |
|       | 5            | 51.5        | 58.0   | 66.5 | 77.0   | 91.5  | 111.5  | 146.0 | 203.5  | 316.0 | 635.5  |
|       | 6            | 63.5        | 71.5   | 81.5 | 94.5   | 111.5 | 139.5  | 181.5 | 250.5  | 386.0 | 768.5  |

| Model | Model Number | Backup Time |      |      |      |      |      |      |       |       |       |
|-------|--------------|-------------|------|------|------|------|------|------|-------|-------|-------|
|       |              | 10kVA       | 9kVA | 8kVA | 7kVA | 6kVA | 5kVA | 4kVA | 3kVA  | 2kVA  | 1kVA  |
| 10kVA | 2            | 4.0         | 4.5  | 6.0  | 8.0  | 11.5 | 15.0 | 20.5 | 30.5  | 51.0  | 108.0 |
|       | 3            | 8.0         | 9.5  | 11.5 | 14.5 | 21.0 | 27.0 | 36.0 | 51.0  | 80.5  | 177.0 |
|       | 4            | 12.5        | 15.0 | 18.0 | 22.0 | 31.0 | 39.5 | 51.5 | 71.5  | 110.5 | 246.5 |
|       | 5            | 18.0        | 21.0 | 25.0 | 30.0 | 41.5 | 51.5 | 66.5 | 91.5  | 146.0 | 316.0 |
|       | 6            | 23.5        | 27.0 | 32.0 | 38.5 | 51.5 | 63.5 | 81.5 | 111.5 | 181.5 | 386.0 |

| Model | Model Number | Backup Time |         |         |         |        |      |        |        |        |        |
|-------|--------------|-------------|---------|---------|---------|--------|------|--------|--------|--------|--------|
|       |              | 16kVA       | 14.4kVA | 12.8kVA | 11.2kVA | 9.6kVA | 8kVA | 6.4kVA | 4.8kVA | 3.2kVA | 1.6kVA |
| 16kVA | 4            | 7.5         | 9.0     | 10.5    | 13.0    | 16.0   | 21.0 | 28.5   | 41.5   | 145.0  | 108.0  |
|       | 6            | 14.0        | 16.0    | 19.0    | 24.5    | 28.5   | 36.5 | 48.0   | 66.5   | 233.5  | 177.0  |
|       | 8            | 21.0        | 24.5    | 28.5    | 34.0    | 41.5   | 52.0 | 67.0   | 92.0   | 322.0  | 246.5  |
|       | 10           | 28.5        | 33.0    | 38.5    | 45.5    | 54.5   | 67.0 | 86.0   | 118.5  | 410.5  | 316.0  |
|       | 12           | 35.5        | 41.5    | 48.0    | 56.0    | 67.0   | 82.0 | 105.0  | 148.5  | 498.5  | 386.0  |

| Model | Model Number | Backup Time |       |       |       |       |       |      |       |       |       |
|-------|--------------|-------------|-------|-------|-------|-------|-------|------|-------|-------|-------|
|       |              | 20kVA       | 18kVA | 16kVA | 14kVA | 12kVA | 10kVA | 8kVA | 6kVA  | 4kVA  | 2kVA  |
| 20kVA | 4            | 5.5         | 6.5   | 7.5   | 9.5   | 11.5  | 15.0  | 21.0 | 31.0  | 51.5  | 111.0 |
|       | 6            | 10.0        | 11.5  | 14.0  | 17.0  | 21.0  | 27.0  | 36.5 | 51.5  | 81.5  | 181.5 |
|       | 8            | 15.0        | 17.5  | 21.0  | 25.5  | 31.0  | 39.5  | 52.0 | 72.0  | 112.0 | 252.5 |
|       | 10           | 21.0        | 24.5  | 28.5  | 34.0  | 41.5  | 52.0  | 67.0 | 92.5  | 148.0 | 324.0 |
|       | 12           | 27.0        | 31.5  | 36.5  | 43.0  | 52.0  | 64.0  | 82.0 | 112.5 | 184.0 | 395.0 |

## Technical Specifications

| Nominal Ratings(kVA)                                     | 5   | 6   | 10  | 16  | 20  |
|--|---|---|---|---|---|
| Standard/Long Backup Model                               | ITA-05k00AL1102P00/<br>ITA-05k00AE1102P00                                   | ITA-06k00AL1102P00/<br>ITA-06k00AE1102P00 | ITA-10k00ALA102P00/<br>ITA-10k00AEA102P00                     | ITA-16k00AL3A02P00/<br>ITA-16k00AE3A02P00             | ITA-20k00AL3A02P00/<br>ITA-20k00AE3A02P00           |
| <b>Input parameters</b>                                  |   |   |   |   |   |
| Nominal input voltage(V)                                 | 220/230/240VAC<br>1-Phase, 2Wire  |   | 220/230/240VAC 1-Phase, 2Wire<br>380/400/415VAC 3-Phase,4Wire |   | 380/400/415VAC 3-Phase,4Wire                        |
| Input voltage range(V)                                   | 176-288VAC at full load; 100-176VAC at linear derating; 100VAC 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%)*                  | <5  |   |   |   |   |
| <b>Battery</b>   |   |   |   |   |   |
| DC Bus Voltage   | 140-240VDC  |   | 140-240VDC  |   | 288-480VDC  |
| Battery Charger max. power (A)                           | = 5A (Long back-up model)<br>= 2A (Standard model)                          |   | = 8A (Long back-up model)<br>= 4A (Standard model)            |   | = 13A (Long back-up model)<br>= 5A (Standard model) |
| Battery Option   | P/C : ITA-BCI0020K01 ( built-in battery module of 16 block X 12V X 9AH)     |   |   |   |   |
| <b>Output</b>  |   |   |   |   |   |
| Nominal output voltage (V)                               | 220/230/240 (1-phase)   |   |   | 220/230/240VAC (1-Phase),<br>380/400/415VAC (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%, 5min; 125% ~ 150%, 1min; 150%, 200ms                  |   |   |   |   |
| Crestfactor  | 3:1   |   |   |   |   |
| <b>Efficiency</b>  |   |   |   |   |   |
| Online mode efficiency                                   | Upto 95.5%  |   | Upto 95.8%  |   | Upto 96.2%  |
| ECO mode efficiency                                      | Up to 99%   |   |   |   |   |
| <b>Dimensions</b>  |   |   |   |   |   |
| Dimensions (W x D x H) in mm<br>Rack Mounted Arrangement | 430x400x85  |   | 430x500x85  |   | 430x500x130   |
| Weight(kg)   | 11  |   | 15  |   | 23  |
| <b>General</b>   |   |   |   |   |   |
| Nosie at 1 m(dBA)  | =55   |   |   |   | =58   |
| Operating temperature(°C)                                | 0 ~ 50*   |   |   |   |   |
| Relative humidity (%RH)                                  | 5 ~ 95, non-condensing  |   |   |   |   |
| Altitude(m)  | =3000m  |   |   |   |   |
| General and safety<br>requirements for UPS               | IEC/EN 62040-1  |   |   |   |   |
| EMC requirements for UPS                                 | IEC/EN 62040-2  |   |   |   |   |
| UPS classification according to<br>IEC 62040-3           | VFI-SS-111  |   |   |   |   |

Note: Specification are subject to change without any further notification

\* Conditions apply

(1) with ABS certification



VertivCo.com | E-mail : [marketing.india@vertivco.com](mailto:marketing.india@vertivco.com) | Toll free : 1-800-2096070

**Vertiv Energy Private Limited** | Plot C-20, Rd No.19, Wagle Ind Estate, Thane (W), 400604. India

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