VERTIV™

Liebert®

ITA2™ UPS
5-20kVA Compact,
Efficient & Robust Online 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.

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.

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

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.

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

Liebert® ITA2™ 5-20kVA

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, True Online 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

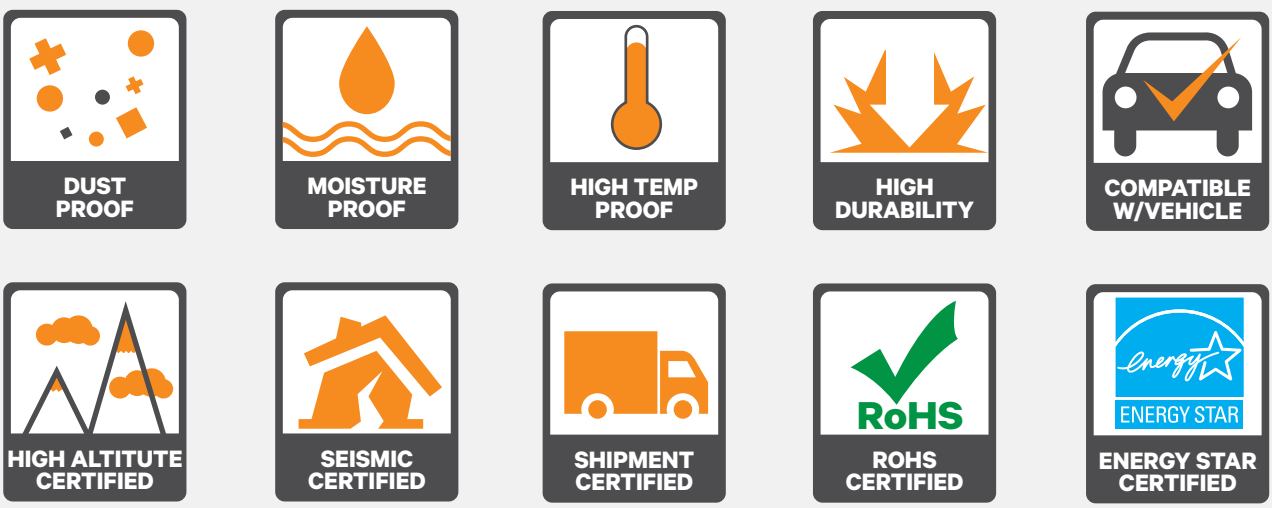
16-20kVA

Application Areas

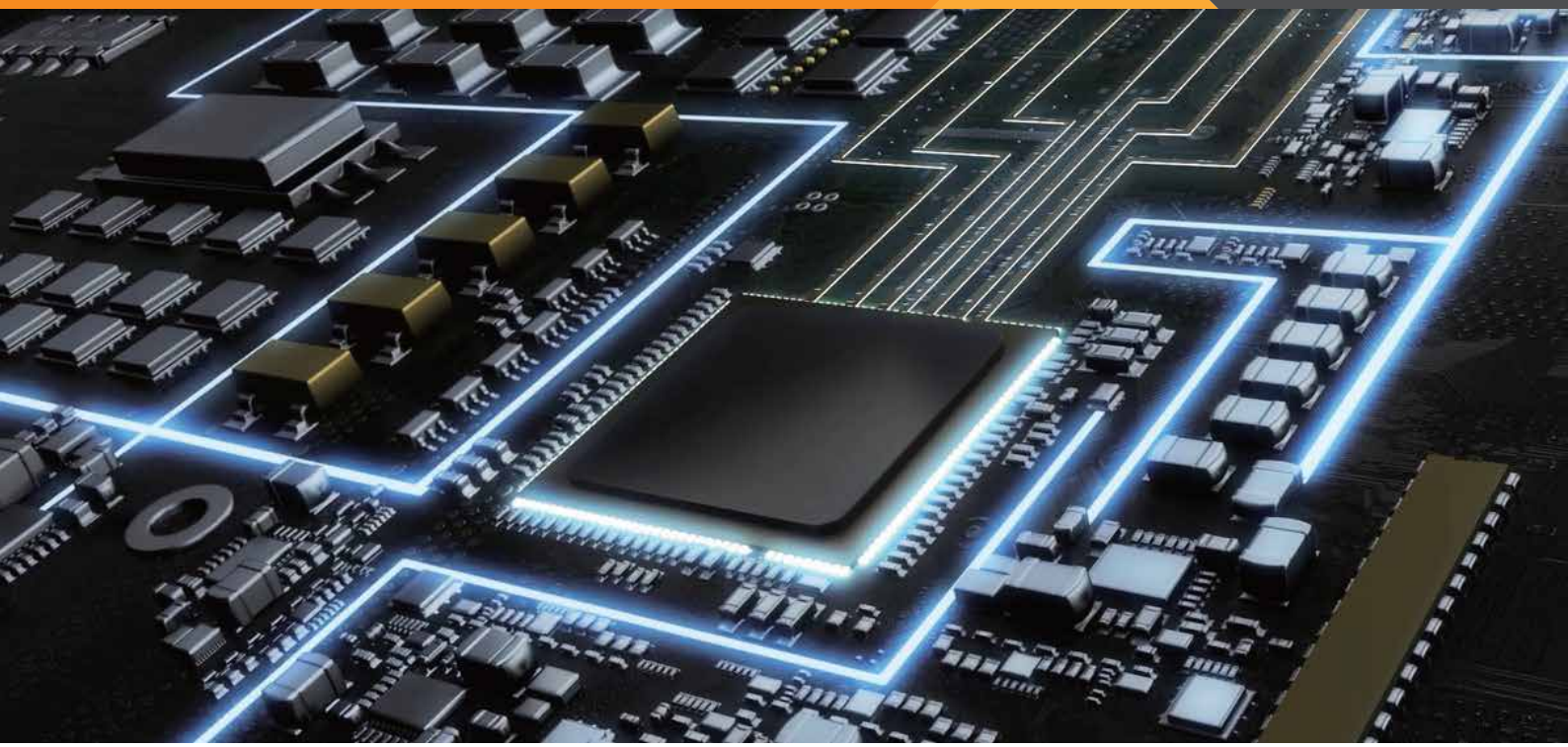
- Edge Networks
- Data Centers
- Automation industries
- Server Farms
- Workstations
- Telecom
- Marine[1]

Liebert® ITA2™

Robust power protection solution in a compact package



Liebert® ITA2™ 5-20kVA

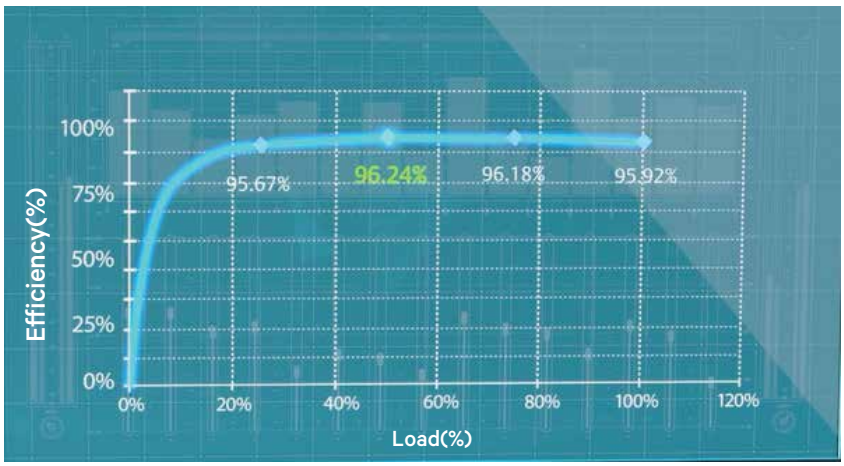


KEY FEATURES

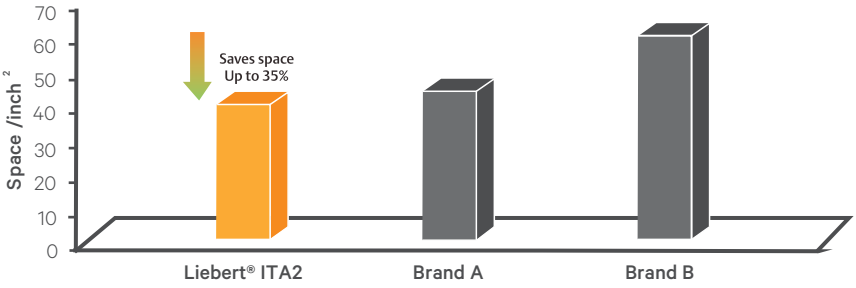
- Robust structure with cutting edge channelized airflow design
- Wide input voltage range, making it immune to grid interference
- Programmable output outlets/ terminals with cascade protection to protect key devices during heavy load
- Integrated Ethernet port with HTTP protocol compatibility & streamlined 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

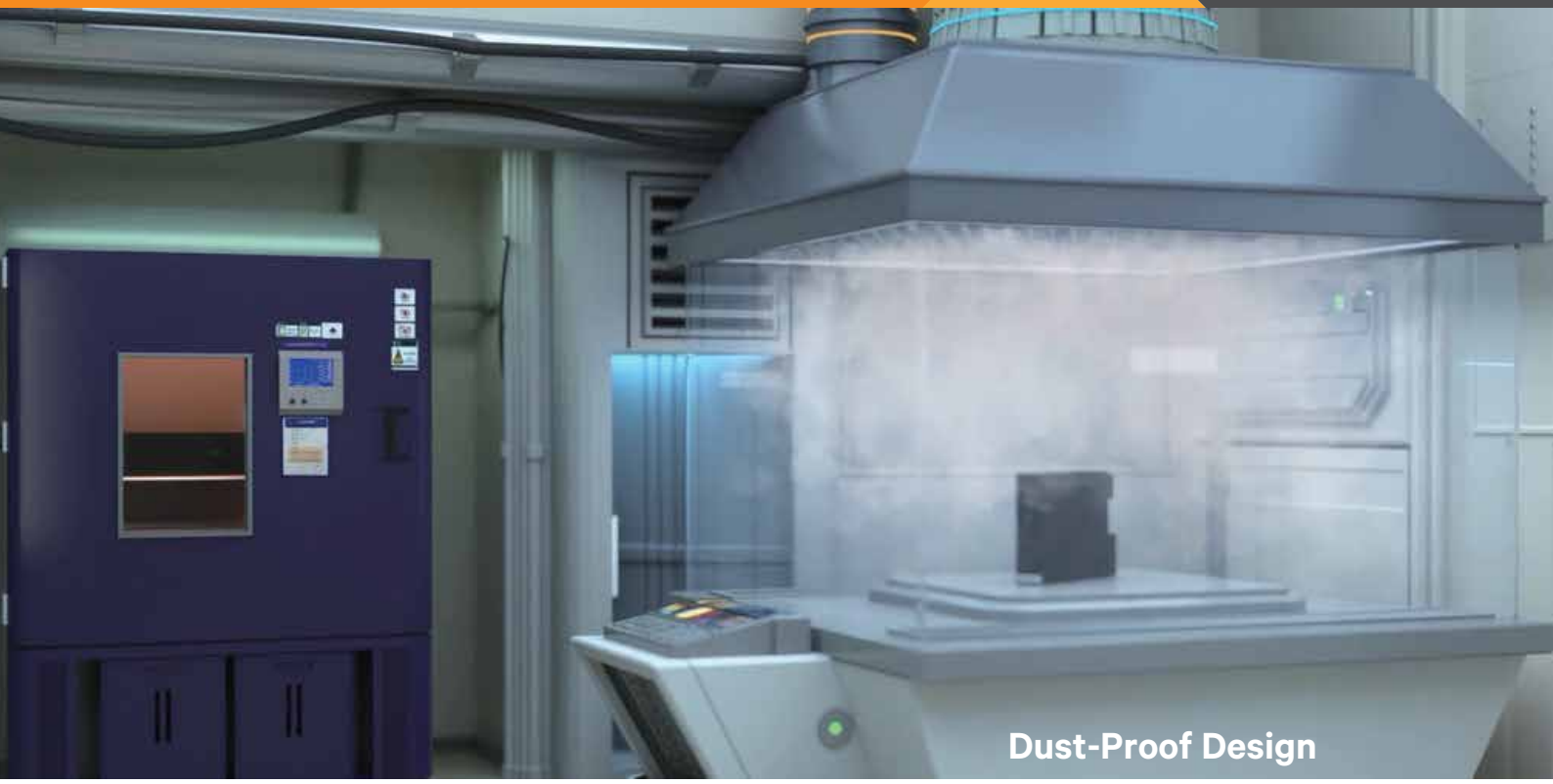
Liebert® ITA2™ offers best-in-class efficiency of up to 96.3% over a wide range of load conditions, resulting in significant OPEX cost savings. ITA2™'s integrated Smart Sleep technology in ECO mode provides a superlative efficiency of up to 99%.



The Most Compact UPS



Liebert® ITA2™ 5-20kVA



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® ITA2TM 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.

Liebert® ITA2™ 5-20kVA

POD-Optional Accessories

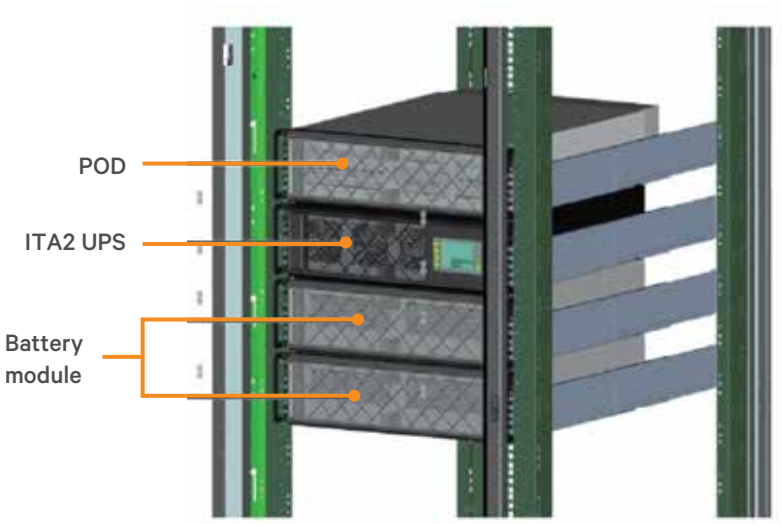
When your critical system can not afford any power loss without power, even for scheduled UPS maintenance, the Liebert POD Maintenance Bypass and Output Distribution Unit ensures continuous uptime.

It allows you to manually transfer connected equipment to utility power via a maintenance bypass switch, permitting scheduled serviceor 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

Liebert® ITA2™ 5-20kVA

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Technical Specifications

Nominal Ratings (kVA)	5	6	10	16	20
Standard/Long Backup Model	ITA-05k00AL1102P00/ ITA-05k00AE1102P00	ITA-05k00AE1102P00" ITA-10k00AEA102P00"	"ITA-06k00AL1102P00/ "ITA-16k00AL3A02P00/	ITA-06k00AE1102P00" ITA-16k00AE3A02P00"	ITA-10k00ALA102P00/ ITA-20k00AL3A02P00/
Input parameters					
Nominal input voltage (V)	220/230/240VAC		220/230/240VAC 1-Phase, 2Wire 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				
Input phase reversal correction	NA		Yes	No	
Current THD at full linear load (THDi%)*	<5				
Battery					
Battery number	12(1), 16, 20		12(1), 16, 20	24(1), 32, 40	
Battery Charger max. power (A)	5A (Long back-up model) 2A (Standard model)"		8A (Long back-up model) 4A (Standard model)"	13A (Long back-up model) 5A (Standard model)"	
Battery Option	"P/C : ITA-BCI0020K01 (built-in battery module of 16 block X 12V X 9AH) Battery cabinet dimensions in rack mounted arrangement-430(W) x 739(D) x 85(H) in mm"				
Output					
Nominal output voltage (V)	220/230/240VAC (1-Phase)			220/230/240VAC (1-Phase), 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				
Crest factor	3:1				
Split bypass option	No		Yes	Yes	Yes
Output waveform	Pure Sinewave				
Efficiency					
Online mode efficiency	Up to 95.5%		Up to 95.8%	Up to 96.2%	
ECO mode efficiency	Up to 99%				
Dimensions and weight					
Dimensions (W x D x H) in mm Rack Mounted Arrangement	430x450x85		430x560x85	430x570x130	
Weight (kg)	11		15	23	
General					
Nosie at 1 m (dBA)	55			58	
Operating temperature (°C)	0 ~ 50(2)				
Relative humidity (%RH)	5 ~ 95, non-condensing				
Altitude (m)	3000m				
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				

*Conditions apply
Note: Specification are subject to change without any further notification
(1) Power derates to 70% of total capacity
(2) 0-25 deg no power derating , derate to 80% at 40deg and 70% at 50deg