

# Liebert®

ITA2<sup>™</sup> UPS 5-20kVA Compact, Efficient & Robust UPS For Critical Applications





Vertiv, formerly Emerson Network Power, designs, builds, and services mission critical technologies that enable vital applications for data centers, communication networks, and commercial & industrial environments.

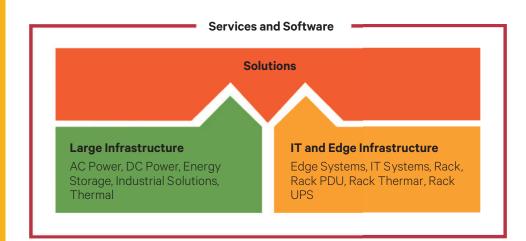
We support today's growing mobile and cloud computing markets with our portfolio of power, thermal and infrastructure management products, software and solutions, all complemented by our extensive global service network.

We help strengthen the world's most vital applications by bringing together global reach and local knowledge, and our decades-long heritage, including brands like Chloride, Liebert, NetSure, Avocent and Geist.

#### ARCHITECTS OF CONTINUITY™

As industry experts and Architects of Continuity, we collaborate with our customers to envision and build futureready infrastructures.

We help our customer meet the worlds demand for data.



#### **Avocent**®

IT Management

Our industry-leading software gives customers an integrated view of operations across IT and facilities resources, enabling better decisions that save time and money

#### **Chloride**®

Industrial Power

Our global industrial power solutions meet the most demanding technical specifications and provide safe, reliable power- no matter the challenge

# Liebert®

AC Power and Thermal

Our global power and thermal management solutions are some of the world's most efficient and reliable power and cooling technologies

# **NetSure**<sup>™</sup>

DC Power

Our global intelligently engineered DC power systems deliver high availability, energy efficiency and scalability for converged networks



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<sup>™</sup> is a fully-digital, highly reliable, doubleconversion 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<sup>®</sup> ITA2<sup>™</sup>5-20kVA



5-10kVA



16-20kVA

#### **Application Areas**

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

#### Liebert<sup>®</sup> ITA2<sup>™</sup>

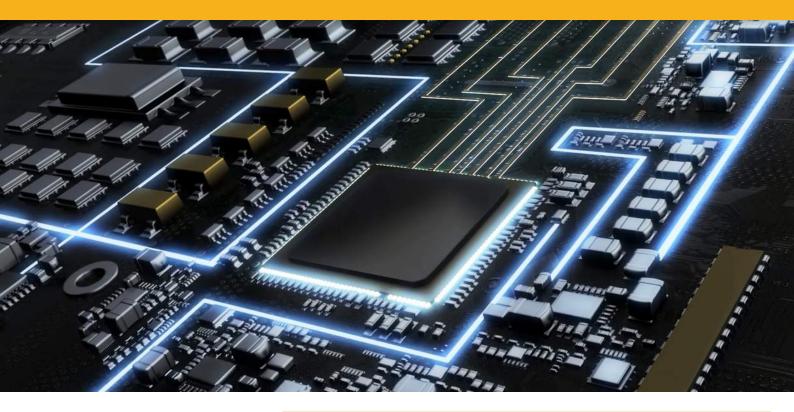
#### Robust power protection solution in a compact package







## Liebert ITA2<sup>™</sup> 5-20kVA

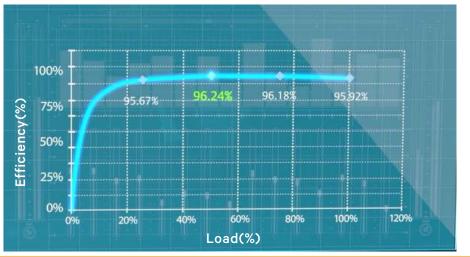


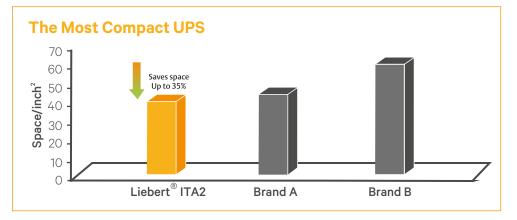
#### **Key Features**

- Robust structure with cuttingedge 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-resistant design with ability to operate under high ambient temperature of up to 50°C

#### **The Most Efficient UPS**

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









Available in different wattage variations, Liebert<sup>®</sup> ITA2<sup>™</sup> 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<sup>®</sup> ITA2<sup>™</sup> 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.

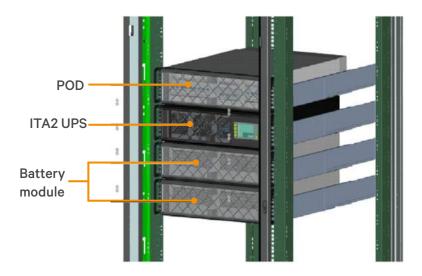
It allows you to manually transfer connected equipment to utility power via a maintenance bypass switch, permitting scheduled service or UPS replacement without the need to shut down connected equipment.

Features include:

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

#### **Battery Backup Table**

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



Model	Model	Backup Time										
	Number	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	58.0	122.4	
	2	18.0	20.9	24.6	29.7	36.5	46.0	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	207.0	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	107.0	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	
Model	Model	Backup Time										
	Number	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	19.0	28.0	46.9	101.0	
	2	14.0	16.1	19.1	23.0	28.6	36.5	48.4	67.0	103.9	228.2	
	3	24.7	28.7	33.6	40.0	48.5	60.2	77.6	105.6	167.6	359.7	
	4	36.7	42.0	48.7	57.0	68.0	83.5	106.9	147.8	235.1	491.2	
	5	48.8	55.3	63.3	73.6	87.5	107.0	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	
Model	Model	Backup Time										
	Number	10kVA	9kVA	8kVA	7kVA	6kVA	5kVA	4kVA	3kVA	2kVA	1kVA	
10kVA	2	4.8	5.5	7.4	10.2	14.0	18.0	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	207.0	
	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	107.0	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	
Model	Model					Backu	p Time					
	Number	16kVA	14.4kVA	12.8kVA	11.2kVA	9.6kVA	8kVA	6.4kVA	4.8kVA	3.2kVA	1.6kVA	
16kVA	4	9.5	11.0	13.0	15.6	19.4	24.8	33.8	48.7	77.7	169.6	
	6	16.8	19.6	23.1	27.8	34.0	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	
Model	Model					Backu	p Time					
	Number	20kVA	18kVA	16kVA	14kVA	12kVA	10kVA	8kVA	6kVA	4kVA	2kVA	
20kVA	4	6.9	8.0	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	84.0	131.8	295.5	
	10	25.3	29.3	34.4	41.0	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	

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



### **Technical Specifications**

Nominal Ratings(kVA)	5	6	10	16	20			
Standard/I ond Backlin Model	A-05k00AL1102P00/ A-05k00AE1102P00	ITA-06k00AL1102P00/ ITA-06k00AE1102P00	ITA-10k00ALA102P00/ ITA-10k00AEA102P00	ITA-16k00AL3A02P00/ ITA-16k00AE3A02P00	ITA-20k00AL3A02P00/ ITA-20k00AE3A02P00			
Input parameters								
Nominal input voltage(V)	220/230, 1-Phase	/240VAC e, 2Wire	220/230/240VAC 1-Phase, 2Wire 380/400/415VAC 3-Phase,4Wire	380/400/415VA	.C 3-Phase,4Wire			
Input voltage range(V)		176-288VAC at full lo	bad; 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%)* Battery			<5					
DC Bus Voltage	140-24	+OVDC	140-240VDC	288-4	80VDC			
Battery Charger max. power (A)	= 5A (Long ba	ack-up model)	= 8A (Long back-up model)	= 13A (Long b	ack-up model)			
	= 2A (Stanc	lard model)	= 4A (Standard model)	= 5A (Stand	dard model)			
Battery Option			CIOO2OKO1 ( built-in battery moo pinet Dimensions in rack arranger					
Output								
Nominal output voltage (V)		220/230/240 (1-	phase)		VAC (1-Phase), VAC (3-Phase)			
Nominal output frequency (Hz)			50/60					
Rated power factor(kW/kVA)			Unity					
/oltage harmonic distortion(%)	<2% for Linear loads & <5% for Non-linear loads							
Dverload capacity		At 25°C: 1055	% ~ 125%, 5min; 125% ~ 150%, 1min; 1	50%, 200ms				
Crestfactor			3:1					
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	430x4	50x85	430x560x85	430x5	70x130			
Weight(kg)	1	1	15		23			
General								
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 equirements for UPS			IEC/EN 62040-1					
EMC requirements for UPS			IEC/EN 62040-2					
JPS classification according to EC 62040-3			VFI-SS-111					
Note: Specification are subject to change without any further Conditions apply	notification							

\* Conditions apply <sup>(1)</sup> with ABS certification



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