

Vertiv™ Liebert® ITA2 10 - 40 kVA



Flexible power protection for Rack or Tower installation

Highlights

The Vertiv™ Liebert® ITA2 series is ideally suited for:

- Small computer rooms
- Integrated solutions
- Branch offices
- Servers
- Network computers and peripherals
- Storage device
- VoIP.

Product Features:

- **Rack-tower design** for installation flexibility
- Able to deliver both three-phase and single-phase output (10-20 kVA)
- Ultra **high power density**, thanks to 30% reduced dimensions compared to the previous generation
- 0.99 input power factor for **better grid or generator compatibility**
- Unity output power factor for **additional power availability**
- Efficiency in double conversion **up to 96.6%**
- ECO mode operation with efficiency up to 99% and **remarkable energy-saving performance**
- Powerful charging capability for **minimum battery recharging time**.

The UPS is compatible with any Building Management System (BMS) by offering the following communication features:

- Voltage-free contact ports
- USB interface
- Vertiv™ Liebert® IntelliSlot™ for SNMP, Modbus or Relay communication
- Programmable output terminals (10-20 kVA).

Remarkable Efficiency and Flexibility characterize the Vertiv™ Liebert® ITA2 UPS

Featuring true online double conversion technology, unity power factor and an extremely compact rack-tower design, Vertiv™ Liebert® ITA2 is the perfect power protection solution for your computer rooms, storage and network equipment.

Description

With a unity output power factor, Vertiv™ Liebert® ITA2 **perfectly matches the needs of modern IT loads**, and with its wide input voltage and frequency range it effectively reduces the need for battery intervention, thus **prolonging battery life**.

It is also endowed with intelligent fans with automatic speed control, which effectively **save energy and reduce noise**.

Vertiv Liebert ITA2 supports common battery configurations between paralleled UPS and the number of batteries per string, which can be arranged flexibly, facilitating the utilization of different battery systems and **saving on battery investment**.

An extra powerful battery charger across all models capable of recharging high capacity battery strings ensures a **fast charge-restoration** even after a prolonged power outages.

Vertiv Liebert ITA2 offers **enhanced flexibility** with a wide range of accessories for both stand-alone and rack-mount installations. When rack mounted, it allows to install up to 40 kVA UPS in just 3 U of space, achieving a remarkable space saving. Parallelability and maintenance are facilitated through the use of **dedicated maintenance bypass option** while extended backup time can be provided with **matching battery modules** (10-20 kVA) for a neat rack-mounted installation.

Vertiv Liebert ITA2 features a multi-lingual LCD user interface allowing close control and monitoring of system status and performance.



Vertiv™ Liebert® ITA2 10 - 40 kVA

Technical Specifications

Ratings (kVA)	10	15	20	30	40
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Input

Nominal input voltage (V) 380/400/415 (three-phase + neutral) 380/400/415 (Line voltage)	380/400/415 (three-phase + neutral)			380/400/415 (Line voltage)	
Input voltage range without battery discharge (V) 173 to 498*	173 to 498*			176 ~ 288, at full load 100Vac ~ 176Vac, linear derating 100Vac, at half load	
176 ~ 288, at full load	40 ~ 70				
100Vac ~ 176Vac, linear derating	selectable from +20 to -40			Upper limit: +10%, +15% or +20%; default: +20%; Lower limit: -10%, -20%, -30% or -40%; default: -40%	
100Vac, at half load	±20 (±10 selectable)			±5Hz, ±10Hz	
Nominal input frequency (Hz) 50/60	0.99			≥0.99, at full load; ≥0.98, at half load	
Input frequency range (Hz) 40 ~ 70	≤3*			<3% (for linear full load)	

Battery Management

Battery blocks per string	24~40*	32~40	32~40**
Voltage temperature compensation (mV/°C/Cell) -3	-3		default 3 mV/cell/, can be set 0 5mV/cell/ from Paramset
Battery charger max. current (A) 13 ≤ 13A	13		≤ 13A

Output

Nominal output voltage (V)	380/400/415 (three-phase) or 220/230/240 (single-phase)			380/400/415 (three-phase)	
Nominal output frequency (Hz)	50/60				
Maximum active power (kW)	10	15	20	30	40
THDv at full linear load (%)	≤2			< 2% (linear load); < 5% (non-linear load)	
Inverter overload capacity at 25°C	105% for 60 min 125% 5 min 150% for 1 min > 150%, 200 ms			105% for 60 min 125% 10 min 150% for 1 min > 150%, 200 ms	
				Up to 105% continuous 105%-125% for 10 min 125%-150% for 1 min > 150%, 200 ms	

Efficiency

Double conversion efficiency	Up to 96.2%			96.6%	
ECO Mode Efficiency	Up to 99%			99%	

Dimensions and Weight

Dimensions (W x D x H) (mm)	430 x 600 x 130 (UPS) 430 x 600 x 130 (Battery module 3U, 16 x 9 Ah) 430 x 755 x 85 (Battery module 2U, 16 x 9 Ah) 430 x 600 x 173 (single POD), 430 x 600 x 261 (1+1 parallel POD)			430 x 730 x 130 (3U) 430x600x130 (Battery module 3U, 16x9 Ah) 430x755x85 (Battery module 2U, 16x9 Ah) 430 x 730 x 173 (4U) (single POD) 430 x 730 x 261 (6U) (1+1 parallel POD)	
Net Weight (kg)	23.5 (UPS) 51 (Battery module 3U, 16 x 9 Ah) 57 (Battery module 2U, 16 x 9 Ah) 18 (single POD), 30 (1+1 parallel POD)			23.5 (UPS) 18 (single POD) 30 (1+1 parallel POD)	
				30/52 (UPS) 20/30 (Single POD) 28/43 (1+1 Parallel POD)	

General

Noise at 1 m (dBA)	≤58	<60	63
Ventilation	Front to back		
Maximum altitude	1500 m without derating (max. 3000 m)		
Protection level IEC (60529)	IP20		
General and safety requirements for UPS	EN/IEC/AS/BS 62040-4		
EMC requirements for UPS	EN/IEC/AS/BS 62040-2		
UPS classification according to CEI EN 62040-3	VFI-SS-111		
Environmental aspects	EN/IEC/BS 62040-4		

* Conditions apply ** 24-26-28-30 with de-rating *** without junction box (Junction box length is 140mm)