

# Liebert® ITA 10 - 40 kVA

Flexible Power Protection for Rack or Tower Installation

## Remarkable Efficiency and Flexibility Characterize the Liebert® ITA UPS Family

Featuring true on-line double conversion technology, the **Liebert ITA** UPS series from Emerson Network Power provides a highly efficient and reliable power protection solution for your computer rooms, storage and network equipment. With a 0.9 output power factor, **Liebert ITA** 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 adaptation, which effectively save energy and reduce noise.

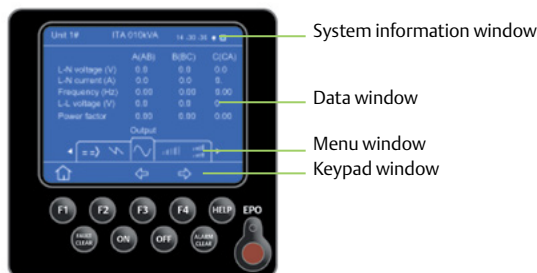
**Liebert ITA** supports common battery configurations between paralleled UPS and the number of batteries per string, which can be arranged flexibly, facilitating the utilization of different battery systems and saving on battery investment. An extra powerful battery charger across all models capable of recharging high capacity battery strings ensures a fast charge-restoration even after a prolonged power outages.

### 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
- 0.99 input power factor for better grid or generator compatibility
- 0.9 output power factor for additional power availability
- Efficiency in double conversion exceeding 95%
- ECO mode operation with efficiency up to 98% and remarkable energy-saving performance
- Powerful charging capability with consequent reduction of the 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
- Optocoupler based interfaces
- Intellislot for SNMP, Modbus or Relay communication.



**Liebert ITA** 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 in just 4 U of space, achieving a remarkable space saving. Parallelability and maintenance are facilitated through the use of dedicated bypass and power distribution options while extended backup time can be provided with matching battery modules for a neat rack-mounted installation.

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

### The Liebert ITA series is ideally suited for:

- Small computer rooms
- Long backup time (>30 minutes) applications
- Branch offices
- Servers
- Network computers and peripherals
- Storage device
- VoIP



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## Technical Specifications

| Nominal Ratings (kVA)                                 | 10  | 15    | 20    | 30                           | 40    |
|---|---|-------|-------|------------------------------|-------|
| <b>Input</b>  |   |       |       |                              |       |
| Nominal input voltage (V)                             | 380/400/415   |       |       |                              |       |
| Input voltage range without battery discharge (V)     | 229~478   |       |       |                              |       |
| Nominal input frequency (Hz)                          | 50/60   |       |       |                              |       |
| Input frequency range (Hz)                            | 40-70   |       |       |                              |       |
| Bypass voltage tolerance (%)                          | Upper limit: +10%, +15%, or +20% default: +15%<br>Lower limit: -10%, -20%, -30% or -40% default: -20% |       |       |                              |       |
| Bypass frequency tolerance (%)                        | +/- 10% or +/- 20% default: +/- 20%   |       |       |                              |       |
| Input power factor (kW/kVA)                           | 0.98  | 0.99  | 0.99  | 0.99                         | 0.99  |
| Current THD at full linear load, 3 ph. output (THDI%) | <4%   |       |       |                              |       |
| <b>Battery Management</b>                             |   |       |       |                              |       |
| Number battery cells per string (max - min)           | 30-40   |       | 32-40 |                              |       |
| Battery Modules                                       | 32*12 V*7 Ah or 32*12 V*9 Ah  |       |       |                              |       |
| Voltage temperature compensation (mV/°C/Cell)         | 0-5mV°C/Cell; 3mV°C/Cell  |       |       |                              |       |
| Battery charger max. power (A)                        | 11  |       | 14    |                              |       |
| <b>Output</b>   |   |       |       |                              |       |
| Nominal output voltage (V)                            | 380/400/415 (three-phase)<br>or 220/230/240 (single-phase)  |       |       | 380/400/415<br>(three-phase) |       |
| Nominal output frequency (Hz)                         | 50/60   |       |       |                              |       |
| Nominal active power (kW)                             | 9   | 13.5  | 18    | 27                           | 36    |
| THDv with 100% linear load (%)                        | ≤1  |       |       |                              |       |
| Inverter overload capacity                            | 105% for 60 min; 125% 5min; 150% for 1 min, > 150%, 200ms   |       |       |                              |       |
| <b>Efficiency</b>                                     |   |       |       |                              |       |
| Double conversion efficiency 100%                     | 94.4%   | 94.5% | 94.2% | 95.1%                        | 94.9% |
| Double conversion efficiency 75%                      | 94.0%   | 94.4% | 94.5% | 94.8%                        | 95.1% |
| Double conversion efficiency 50%                      | 93.5%   | 94.0% | 94.4% | 94.3%                        | 94.7% |
| Double conversion efficiency 25%                      | 90.5%   | 92.9% | 93.5% | 93.0%                        | 93.4% |
| Eco Mode Efficiency                                   | 98.0%   | 98.0% | 97.8% | 98.5%                        | 98.5% |
| <b>Dimensions and Weight</b>                          |   |       |       |                              |       |
| Dimensions (W x D x H) (mm)                           | 435 x 750 x 133 (3U)  |       |       | 435 x 770 x 178 (4U)         |       |
| Weight (kg)   | 35  |       |       | 50                           |       |
| <b>General</b>  |   |       |       |                              |       |
| Noise at 1 m (dBA)                                    | ≤56   | ≤56   | ≤58   | ≤56                          | ≤58   |
| Ventilation   | front to back   |       |       |                              |       |
| Protection level IEC (60529)                          | IP20  |       |       |                              |       |
| UPS classification according to CEI EN 6240-3         | VFI-SS-111  |       |       |                              |       |

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## Tech Support

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