



VERTIV™

Liebert®

I^{PRO} LXI

1 ph input 1 ph output



Liebert Ipro LXi AC UPS System

From 1 to 7.5kVA - 1 ph input 1 ph output



The Liebert Ipro LXi Uninterruptible Power Supply System (UPS) is the result of Engineering in product simplification to offer Single Phase Input, Single Phase Output Design having IGBT based Inverter with improved reliability to Industrial requirements.

The Liebert Ipro LXi range is designed to meet the most demanding schedules of Industrial projects. Each Liebert Ipro LXi product includes selection of Industrialized & Pre-configured options to allow the product to be quickly configured and delivered.

Benefits

- **Improved reliability** with robust electrical performance
- **Smart Access to UPS Data:**
 - User Friendly LCD Display
 - Embedded Event logger (Total up to 800 Events)
- **Industrial Flexibility:**
 - Choice of Configurations & options (Refer Technical Data)
- **Compact foot print Area**
- **Easy On site maintenance**

Flexibility for a wide scope of Industrial Requirements

The Liebert Ipro LXi is available today from 1 to 7.5 kVA in Single - Phase Input, Single - Phase Output configuration. It offers a choice of Output voltages (230V or 110 V AC).

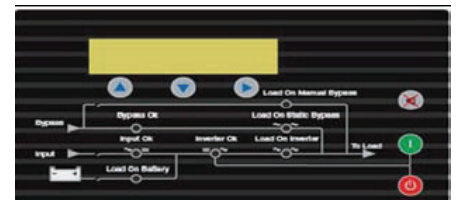
Liebert Ipro LXi features a wide input voltage tolerance , which makes the system compatible with the harshest industrial environment.

To further improve load availability & process availability, the Liebert Ipro Lxi is able to operate in dual distributed parallel configuration , with one bypass (reserve) supply , with single or dual batteries and can include an AC Bus tie.

Key features

In addition to above, the Liebert Ipro LXi features:

- **Ingress protection IP41** as standard for harsh environmental conditions.
- **Robust design** to continuously operate a full load up to 50 Deg C ambient temperature.
- Galvanic isolation between Input & output.
- Compatible with SMF/Lead Acid/Ni-cd battery.
- Digital control & monitoring
- Compact design with the capability to integrate Input isolation transformer up to 3 kVA in the cabinet (Optional)



Applications

The Ipro LXi is best designed for use in the following sectors :
(But not limited to)

- Oil & gas
- Petrochemical & Chemical Industries
- Continuous process industries

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Ratings - Output Power at Cos phi 0.8 (kVA) Vs Battery Voltage (V dc)

192 V dc
1
2
3
5
7.5

Technical Data

Input

Input Voltage	230V AC (+15 %, -10 %) Single phase
Power Factor	≥0.8 ⁽¹⁾
Frequency Range	50 Hz (+/-6 %)

Charger

Voltage Stability	+/- 1 % in float mode, input within tolerance
Voltage Ripple (w/o battery)	<=2 %
Charging Method	Constant voltage constant current

Output

Available rating (See table above)	From 1 to 7.5 kVA (at PF 0.8 lagging)
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AC Voltage :

Single Phase	230 VAC (220, 240)
Frequency	50 Hz

Frequency Stability :

- with internal oscillator	50 Hz (+/-0.25 Hz)
- with reserve synchronism	50 Hz (+/-2.5 Hz)

Voltage Stability (0-100 % load variation) :

- Static	+/- 1 %
- Dynamic	Complies to IEC62040-3, Class 1

Overload Inverter (In % of nominal power)	150 % / 1 min - 125 % / 10 min
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Voltage distortion :

With 100 % linear load	< 3 %
With 100 % non linear load	< 7 %
Allowable Power factor	0.8 lag to unity (within its kVA / KW rating)

Allowable Crest factor	3:1
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Battery

Battery Voltage	192 V DC
Type	VRLA / SMF / Ni-cd

Recommended number of :

- VRLA	96 cells
- SMF	16 blocks of 12V
- Ni-cd	153 cells

Battery charging current limitation	Selectable & adjustable in step 2,4,6A
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General Data

Operating Temperature	Up to 50 Deg. C
Storage Temperature	0 to 70 Deg C (Battery Excluded)
Relative Humidity	Up to 95% RH, non condensing
Operating altitude	< 1000 m (Without system de rating)
Cooling	Forced air
External Ingress Protection	IP41
Input / Output Isolation	2 KV AC for 1 min.
Frame Colour	RAL 7035
Dimensions	Varying according to rating & options (Consult us)

Standards

Compliance	IEC62040 (-1,-2,-3) / 60146 / IEC 60950 / IEC 60529 / IEC 60439 / IEC60332 -1-2 EMC Directive 2004 / 108 / CE Low Voltage directive (LVD) 2006 / 95 / CE
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Options

Input

60 Hz (+/-10 %)
Input Isolation Transformer

Battery

Charging Current - Selectable & Adjustable in step 5,10,14 A.
Battery Reverse Polarity Protection, indication on LCD & alarm

Output

Common Battery Bank Configuration - Parallel
Redundant - 2 nos . / Hot stand by / Load Bus sync
Voltage - 110 V AC (+/-2 %)
Frequency - 60 Hz (+/-0.25 Hz) (Factory setting)

Bypass (Reserve)

Isolation transformer Cubicle (Separate Cabinet)
SCVS + Isolation transformer Cubicle (Separate Cabinet)
SVR (Separate Cabinet)

System

AC Distribution (Separate cabinet)
G3 conformal coating on PCBs

Mechanical

Frame Colour - RAL 7032 / RAL 7021
IP42

Communication

Potential free contacts - Rectifier Trip, Inverter trip , Load on battery, Battery low pre alarm, Load on static bypass (1 relay contact for each, Rating tA / 230V or 2 A / 12 V DC)
UPSMON II - Ethernet based
SNMP - Ethernet based
Combination - UPSMON II (232) + Modbus (485) or UPSMON II (Ethernet) + SNMP (RJ45) + Modbus (485)
Profibus (Separate)
I Remote - Ethernet based (Separate)

(1) At nominal Input Voltage & rated Load

(2) For Common battery bank Input isolation transformer is mandatory.



E-mail : marketing.india@vertivco.com
Toll free : 1-800-2096070

VertivCo.com | Plot No. C-20, Road No. 19, Wagle Estate, Thane (W), Maharashtra - 400 604. India.

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