Liebert® LXi

AC UPS System
From 1 to 7.5kVA
1 ph input 1 ph output

Liebert® LXi AC UPS System

The Liebert® LXi Uninterruptible Power Supply System (UPS) offers Single Phase Input, Single Phase Output design having IGBT based Inverter which works in hazardous Industrial environment and capable of working with various batteries including Ni-Cd

Benefits

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

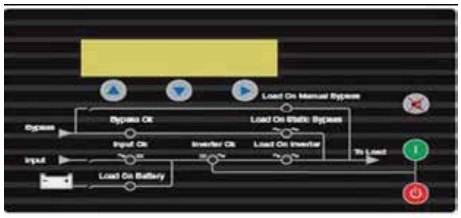
Key features

- **Ingress protection IP41** as standard for harsh environmental conditions.
- **Robust design** to continuously operate a full load up to 50˚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 LXi is best designed for use in the following sectors :
(But not limited to)
- Oil & gas
- Petrochemical & Chemical Industries
- Continuous process industries

- Double Conversion On line UPS
- Superior Output Power Quality
- IGBT Based Inverter
- Advanced Battery management
- Network connectivity - Optional
- Industrialized options
- Compliance to International Standards
- Provides Parallel redundancy (2Units)
- In-built Isolation Transformer (Up to 3 kVA)- Optional
- Casters to Facilitate ease of movement & relocation



Ratings - Output Power at Cos phi 0.8 (kVA) Vs Battery Voltage (192 V dc)

1
2
3
5
7.5

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

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)
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
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
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
General Data	
Operating Temperature	Up to 50°C
Storage Temperature	0° to 70°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(3)	Varying according to rating & options (*Consult us for export orders)

Other Alternate

Input	60 Hz (+/-10 %) Input Isolation Transformer
Battery	Charging Current - Selectable & Adjustable in step 5, 10, 14A. Battery Reverse Polarity Protection, indication on LCD & alarm Common Battery Bank(2)
Output	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 7035 / 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 1A / 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.
(3) Standard Rating Dimensions

Rating	Dimensions [WxDxH]
1kVA To 3kVA	300mm X 850mm X 850mm
5kVA To 7.5kVA	400mm X 850mm X 1000mm

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