

# QuickUPS

Reference guide for UPS Solutions of Vertiv



## Line-Interactive UPS

### Liebert® PSA

500, 650, 1000, 1500VA

Feature Rich UPS with Surge Protection and Monitoring

#### Features and Benefits

- Boost and buck AVR to stabilize the input voltage
- Three to six battery-backed UPS outlets, depending on model size
- Surge Protection - one to two surge-only outlets, differentiated by color
- USB communications / shutdown software and cable included
- Up to five minutes of battery backup time of full load
- RJ-45 port for data line surge protection
- 2 years warranty

#### Applications

- Desktop PCs
- Small Routers, Bridges and Hubs
- Point-of-Sale Terminals

#### Shutdown & Monitoring

- Software
  - Liebert® Multilink

Runtime Chart (minutes)

Load (VA)	500VA	650VA	1000VA	1500VA
200	18	20	50	65
400	5	7	18	25
600	-	4	10	14
800	-	-	7	10
1000	-	-	4	7
1200	-	-	-	5
1400	-	-	-	4



## Line-Interactive UPS

### Liebert® PSI

750, 1000, 1500, 2200, 3000VA

Industry Leading UPS with 0.9 PF, Pure Sinewave Output for Business-Critical Applications

#### Features and Benefits

- More than three (3) mins of internal battery backup time at 100% load
- Boost and buck AVR to stabilize the input voltage
- High 0.9 power factor
- Liebert® Multilink software
- 8 to 9 battery-backed outlets
- Rack / tower convertible with rotatable display panel
- 2 years warranty

#### Applications

- Network Computers
- Servers
- Computer Rooms
- Network Storage Devices

#### Monitoring Software

- Liebert® Multilink
- Liebert® IntelliSlot Web Card3

Runtime Chart (minutes)

Load (%)	750VA	1000VA	1500VA	2200VA	3000VA
10	84	93	76	82	76
20	45	47	32	44	32
30	25	26	17	19	17
40	15	15	12	14	12
50	11	12	9	11	9
60	9	9	7	9	7
70	7	7	5	7	5
80	5	6	4	5	4
90	4	5	3	4	3
100	4	4	3	3	3

External batteries available



## On-line UPS

### Liebert® GXT MT+

1000, 2000, 3000VA

Compact Tower UPS for High Performance Power Protection

#### Features and Benefits

- Power factor 0.8
- Mini tower compact design
- Large LCD display for easy monitoring and operation
- Programmable outlets maximize battery runtime for critical load
- ECO mode for energy saving
- Double conversion on-line technology
- 2 years warranty

#### Applications

- Process Automation Equipment
- Small Office Network
- Telecommunication Equipment
- VoIP

#### Shutdown and Monitoring Software

- DP801 SNMP Card
- ViewPower Shutdown Software
- AS / 400 Card

Runtime Chart (minutes)

Load (VA)	1000VA	2000VA	3000VA
25	38	39	31
50	17	16	12
75	10	10	7
100	6	6	4

External batteries available



## On-line UPS

### Liebert® ITA

6000, 10000, 16000, 20000VA

Parallelable, Modular, Scaleable UPS with 0.9 PF

#### Features and Benefits

- Power factor 0.9\*
- Supports parallel operation up to 4 units (3+1)
- Backup time prolonged through cascaded connection or large capacity battery bank
- 92%-94% efficiency
- 10A external charger available for ITA 5/6/10kVA
- Parallel POD available
- ITA 5/6kVA - 2 years standard warranty
- ITA 10/16/20kVA - 1 year standard warranty
- LCD display

Runtime Chart (minutes)

Load (%)	5000VA	1000VA	1600VA	2000VA
20	60	60	90	60
40	25	25	35	25
60	13	13	18	13
80	8	8	12	8
100	5.5	5.5	8	5
# of battery cabinets	1	2	4	4

#### Applications

- Small Computer Rooms requiring long backup time (>30 min)

#### Monitoring Software

- SiteMonitor
- SNMP /SIC card
- RDU-SIC card

External batteries available



## On-line UPS

### Liebert® APS

5-20kVA

Flexible, Efficient Modular UPS for Row-Based Applications

#### Features and Benefits

- Capacity on demand with FlexPower™ core modules that allow you to change capacity as needed in 5kVA increments - without powering down
- Module-level redundancy
- User installable, hot-swappable capacity and battery modules
- Internal redundancy capability (N+2/20kVA) and no single point of failure
- Integral battery monitoring
- Internal wrap-around maintenance bypass and Frame-level bypass
- 10A charger module available

#### Applications

- Small-to-medium-sized data centres
- Network closets
- VoIP



## On-line UPS

### Liebert® GXT4

700, 1000, 1500, 2000, 3000VA

True On-line Double Conversion UPS with 0.9 PF

#### Features and Benefits

- On-line double conversion UPS
- High output power factor (0.9)
- IntelliSlot for WEB/SNMP management card
- 2 years warranty

#### Shutdown & Monitoring

- Liebert® Multilink
- IntelliSlot Webcard - IS-WEBCARD
- Liebert® Nform - NFORM-EXP
- Maintenance Bypass Switch
- External Battery Cabinet

#### Applications

- Network Computers
- Large Network Peripherals
- Network Storage Devices

Runtime Chart (minutes)

Load (%)	700VA	1kVA	1.5kVA	2kVA	3kVA
10	105	91	112	81	91
20	62	38	51	37	39
30	37	31	34	23	23
40	32	23	23	16	16
50	27	17	18	12	12
60	22	14	14	9	9
70	18	11	11	7	7
80	15	9	9	5	5
90	13	8	7	4	4
100	11	6	6	3	3

External batteries available



## On-line UPS

### Liebert® GXT4

5000, 6000, 10000VA

Compact UPS Systems For High Power Network Rack Applications

#### Features and Benefits

- High power factor in all models (0.8pf for 5-6kVA and 0.9pf for 10kVA)
- USB communication, built-in dry contact terminals and EPO
- Optional matching size external battery cabinet
- Comes with removable Maintenance Bypass POD as standard

#### Applications

- Network Computers
- Servers
- Computer Rooms
- Network Storage Devices

#### Monitoring Software

- Liebert® Multilink
- IntelliSlot Webcard - IS-WEBCARD
- Liebert® Nform - NFORM-EXP
- External Battery Cabinet

Runtime Chart (minutes)

Load (%)	5000VA	6000VA	10000VA
10	105	97	81
20	52	47	39
30	40	33	22
40	27	22	15
50	21	17	11
60	17	14	9
70	14	11	7
80	12	9	5
90	10	8	4
100	9	6	3

External batteries available



## On-line UPS

### Liebert® NXC

10, 20, 30, 40, 60kVA

Compact and Reliable Power in a Fully Integrated Packaged Solution

#### Features and Benefits

- 0.9 output power factor
- On-line Double conversion with high efficiency over 94%
- Integrated battery compartment capable of up to 60 mins. of integrated autonomy
- Easy site installation and configuration
- Eco-mode efficiency up to 98%
- High capacity battery charger
  - 10-20kVA - 4.5kW
  - 30-40kVA - 6kW
  - 60kVA - 7.5kW
- Input/output and bypass circuit breakers
- Integrated manual bypass
- Integrated parallel load bus and synchronization port (LBS)

Autonomy time (in mins.)\*

Internal Battery Configuration	10kVA	20kVA
1 x 32 x 9AH	8	n/a
2 x 32 x 9AH	23	8
3 x 32 x 9AH	42	15
4 x 32 x 9AH	57	23
Internal Battery Configuration	30kVA	40kVA
1 x 38 x 34AH	25	16

#### \*Notes:

1. Longer back-up time is available. Please consult Emerson representative for proper configuration.
2. Autonomy time is based on 100% load and 0.9 UPS Output Power Factor.
3. Condition applies.

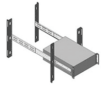
## ACCESSORIES



**SNMP Management Card**  
for Network Monitoring



**Intellislot Webcard**  
Web Management & Network Monitoring



**Rackmount Kit**  
Guide rail kit for rack mounting of UPS



**Liebert® MicroPOD**  
Power Output Distribution  
& Maintenance Bypass Switch



**Liebert® LTS**  
Automatic Transfer Switch  
(10A/16A/32A models available)

## SERVICE OFFERINGS



**Start up**  
Guarantees that the UPS is running at optimum performance



**On-Site Labour**  
Immediate access to on-site support whenever required



**Extended Warranty**  
Extends the useful life of the equipment



**Preventive Maintenance**  
Promotes higher reliability and reduces risk of downtime



**Comprehensive Maintenance**  
Promotes peace of mind with equipment maintenance



**Data Centre Audit**  
Provides a clear picture of the current status and health of the IT infrastructure compared with industry best practices.



**Battery Monitoring**  
Assures that batteries are in good health, monitored on-line.



**Remote Monitoring Service**  
Round the clock monitoring of the IT facility with the help of a monitoring expert



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## POWER FACTOR ANALOGY

Why does high power factor matter to me?

**Beer Drinkers' Power Factor Analogy**  
(Reactive Power = Electrical Froth)



Real Power (Watts) = Apparent Power (VA) X Power Factor (PF)

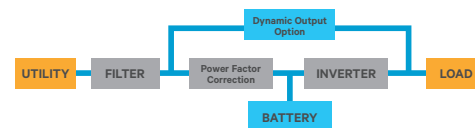
## WHY CHOOSE ON-LINE DOUBLE CONVERSION UPS FOR CRITICAL DATA CENTRE APPLICATIONS

- Provides highest level of protection by effectively isolating the load from power problems (e.g. frequency transients, spikes input AC source faults, and sags and surges)
- Continuous load protection from inverter
- Precise regulation of the output voltage and output frequency
- Instantaneous transfer to stored-energy mode in the event of an AC-input supply failure
- Protects networks from subtle noise and harmonics
- With plug-and-play network communications for easy connection to network management systems



### Recommended for:

- Servers and storage devices
- Computer rooms
- Mid-size data centres
- Voice and data servers
- LAN and WAN servers



## CONTACTS

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