Intellislot Webcard

Web Management & Network Monitoring



SYNNEX

Liebert® PSA

PC's and Office Equipment

Features and Benefits ■ Boost and buck AVR to stabilize

- the input voltage ■ Maximum back up at full load is 4 minutes
- Three to six battery-backed UPS outlets, depending
- 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

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

Liebert® GXT4

UPS with 0.9 Power Factor



Features and Benefits

- High Output Power factor(0.9)
- High efficiency (97%) in ECO Mode
- Expandable to 6 external battery modules
- Rail kit included 2 vears warranty

Applications

- Network Storage Devices
- **Monitoring Software & Accessories**
- Intellislot Webcard IS-WEBCARD (Std in 5,6 & 10kVA)
- Liebert Nform NFORM-EXP ■ Maintenance Bypass Switch ■ External Battery Cabinet

Liebert® ITA

UPS with 0.9 Power Factor



Features and Benefits

- On-line double co ■ High Output Power factor(0.9*)
- Supports parallel operation up to 4 units (3+1)
- Efficiency up to 94%
- Rackup time prolonged through cascaded or of large capacity battery bank

Applications

(>30 min)

Shutdown & Monitoring Software

- SNMP /SIC card
- RDU-SIC card

Liebert® GXT MT+

Features

- DSP technology guarantees high per

9

- 0.8 Output Power Factor ■ Wide input voltage range (110-300 VAC)
- 50Hz/60Hz frequency converter mode
- Configurable to energy saving mode (ECO)
- Programmable power management outlets
- Emergency power off function (EPO)
- Generator compatible ■ Charger capacity expansion to 8A for long-run models
- SNMP/USB/RS-232 com
- 3-stage extendable charging design for optimized
- Extended runtime capability by building up additional
- Maintenance bypass available
- Optional N+X parallel redundancy

Applications

Equipment

- Small-size Data Center Computer Rooms
- Telecommunication Process Automation
 - Equipment ■ Network Storage Devices

Liebert[®] CRV

Liebert® NXC

Fully Integrated Packaged Solutio

Features and Benefits

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

Applications

- Laboratories
- Office facilitie

■ Medical facilities

- Retail brands

Liebert® NX Series with 0.9 Power Factor



Features and Benefits distortion of less than 3%

- Capability to handle 0.9 pf loads ■ Stratified cooling techniques
- Compact LIPS footprints
- Capability to handle 100% unbalanced loading
- Provides up to 96% efficiency
- Parallelable up to four units

- Server Rooms and Mid-sized Data Centres ■ Telecommunication (fixed, WLL & mobile) billing and
- Networks (LAN, MAN & WAN)
- Industrial Process and Motion Automation for Midsized Plants
- Medical Diagnostic/Imaging Equipment

Liebert® MicroPOD

Rackmount Kit

Power Output Distribution & Maintenance Bypass Switch

in a la contra l

(10A C14 Input, 6 way C13 Outlets

Channel Service

ABOUT SYNNEX AUSTRALIA

Synnex Australia the largest distributor in the Australian market, providing a range of products and services including hardware, software, licensing and Cloud solutions

The company is a division of Synnex Technology International Corporation, the largest IT distribution company in Asia Pacific region and ranked the third largest worldwide. Today, the worldwide strength of the Synnex group is reflected by our international market share positions. Synnex is the largest in Taiwan and Fhailand, and among the top two distributors in China. Synnex is also a major player in Hong Kong, Indonesia, Japan and New Zealand.

Synnex is committed to provide Channel Partners with the best solution and services to stay competitive in today's global ICT business landscape. With the recent launch of the Synnex Cloud business in March 2016, the distributor is helping Channel Partners to build a recurring business model in the Cloud and driving digital transformation.

The Synnex Cloud Marketplace has a diverse portfolio that allows partners to provision laaS and SaaS services

on demand The company services a wide range of businesses in the ICT industry including SMB Resellers, System

Integrators, Computer Retailers, Original Equipment

Manufacturers, Corporate Retailers, National Retailers

AC Power / PDU

MPI Intelligent PDU

- Single-phase input that supports strip / branch-level metering or strip / branch -level metering and outlet
- Measures and monitors voltage, current (branch) frequency, power (kW), energy consumption (kWh) and power factor.
- notification of any impending overload issues before they occur ■ Supports external environmental sensors such as temperature, humidity, cabinet door status, water leakage and infrared motion sensors for notification of
- any impending environmental issues ■ Remote switching capability to power on/off outlets (only for Switched PDU) ■ Highly compatible with multiple management software

platform including RDU-A G2 and RDU-M

Avocent® LCD

Liebert® MPH2

- Extensive measurement functions (power. current, voltage and energy), with high
- seamless operation if deployed together Controls and manages individual receptacles shuts down non-essential equipment during
- Predicts over-current conditions before

Access & Control

AutoView KVM Switch

Local Port: Support for USB and/or PS/2 user

Single Solution: Support for USB, PS/2, Sun and serial

target devices in a single solution.

Graphical, Multilingual OSD: Advanced, graphical OSD

eases system configuration and server selection.

can grant KVM access to only certain users. The

administrator can also limit KVM access to only

specific targets on the switch. The AutoView 2030

switch supports smart card/CAC authentication to

target devices, enabling the extension of two-factor

via one IP address

Avocent®

Kev Features

Liebert® MPX

- Allows user to add individual hot-swappable modules for capacity as demand increases
- equipment during power outage Expanded branch overload protection, minimize.
- threat of cascading PDU overload ■ Employs energy efficient receptacle control

Output modules can be changed during running



- **Key Features**
- ency at full and part load

- Available in 600 mm and 300 mm wide Field adjustable air baffles

Thermal Management

■ Horizontal airflow cooling design is suitable for non-

- raised or raised floors. Air, water, and chilled water systems available ■ Adjustable airflow baffles maximise cooling to rack equipment, allowing the system to be positioned
- within the row or at the end of the row. ■ Multiple units communicate with each other to improve system performance and reduce

Up to 10 racks per cooling unit may be monitored

to improve system performance and report rack

- **Applications**
- on non-raised or raised floor applications ■ Ideal for hot/cold aisle configurations

■ Optimal performance when used with SmartAisle

■ Installs at the ends or within the row of racks

Liebert[®] DM

required

- **Kev Features**
- Energy saving mode available ■ Load sharing and duty cycling
- operating environment 24 x 7 x 365 I ow mean time to repair (MTTR)
- Network management via SMTP/SNMP/HTTP ■ Ultra wide ambient temperature range

from -10 to +46C

equipment rooms

- **Applications**
- Small and medium sized computer rooms
- UPS and battery rooms Outdoor electronic and communication

Guarantees that the UPS is running at optimum

On-Site Labor Immediate access to on-site support whenever

Extended Warranty

Extends the useful life of the equipment Preventive Maintenance

Promotes higher reliability and reduces risk of

Comprehensive Maintenance

Data Centre Audit Provides a clear picture of the current status and

health of the IT infrastructure compared with industry best practices

Assures that batteries are in good health, monitored

on-line

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Console Trays

Fax: +64 3 339 2063 Emergency Service: 0800 100 877

NEW ZEALAND Auckland

Christchurch

all Avocent® data centre KVM switches hone: 1800 005 161 mergency Service: 1300 367 686 On-Screen Display: Easy-touch intuitive design in

> ■ Environmentally responsible: Low power usage during operation and standby ■ Integrated KVM switch options with 8- or 16-port, local and/or remote access to servers

■ Large Screen: 16x9 18.5" with variable resolutions

Form Factor: Travs are easy to access, ves lock

curely in and only 1U preserving rack space

KVM Compatibility: LRA Consoles are compatible with

- measurement accuracy of up to± 1% rovides compatible monitoring platforn for Liebert MPH and Liebert MPX, offering
- power outages maximizing availability and
- Up to 4 Liebert MPX/MPH can be controlled

- The Liebert MPX is a modular PDU: input and output odels can be flexibly configured as required
- Controls and manages individual receptacles and or groups of loads and devices; shuts down non essential

operation: no downtime

■ Installs within the row of racks

■ Liebert iCOM controls deliver automatic performance

Monitoring

Liebert® RDU-A G2

■ Intelligent monitoring hardware that combines Comprehensive DCIM platform in a single pane monitoring of equipment, environment and safety of

- the infrastructure ■ Flexible structural design enabling customiz
 - view historical information and transmit controls or commands via a secure web nane ■ 3rd party communications: SNMP, Modbus 485,

Vertiv SmartCabinet

Key Features ■ Fully integrated: Power, cooling,

- monitoring and security features for IT applications ■ Dust protection and noise insulation: Fully closed operation cold/hot air is circulated within th humidity control, expanding lifespan of IT equipment, low noise
- Fast deployment: Compared to traditional compute ■ Central Management: optional feature of RDU-M

S-Series

Racks & Integrated Solutions

- Strong and durable solid frame that
- can hold up to 1,200KG static load ■ 78% open high perforated doors for optimal air flow
- Seismic solution is available for

Convenient tool-less installation of

S-Series Rack includes:

- Double flat rear mesh doors
- 1 pair of side panels. Optional locking version available.
- 4 fast deploying levelling feet and 4 casters





- Industry-leading operating temperature:

■ Variable speed EC fans and variable capacity scroll

Intelligent Monitoring Platform for Data Centre Facilities **Key Features**

that provides central management of multiple SmartCabinet™ sites

Small Computer Rooms and Network Clo.

- Air Cooled up to 12kW is max DM size ■ Chilled Water up to 25kW capacity
- Provides consistent and stable
- Standard RS485 port for monitoring ■ Highly efficient cooling system

Remote Monitoring Service Round the clock monitoring of the IT facility with the





cable and air flow management critical application ■ Fast deployment levelling feet



■ 50 sets of captive M6 nuts and M6 screws





■ 4 x (19") EIA-310 vertical mounting rails ■ 42U vertical cable tray for dual PDU mounting x 2

Open hottom area (optional cover)





Up to 40 full auto-sensing ports

Features and Benefits

Avocent® Universal

Management Gateway

Convenient single U chassis - reduced rack space

Up to 1024 service processors: wide variety of servers

■ KVM and SPM capability per port (using the UMIQ-V2)

■ Data collection – up to 10,000 data points per minute

Real-time information across IT and facilities

INDUSTRY LEADING IT INFRASTRUCTURE AND MANAGEMENT SOLUTIONS

Environmental Monitoring Liebert® RDU-A™ G2 ■ Monitoring of the health and status of the equipment ■ Environment temperature and humidity ■ Transmission of control or commands to the equipment and parameter setting ■ Data and logs of historical information of alarms and notifications **Intelligent PDUs** Liebert® MPH2™ Outlet monitoring Switchable Redundancy ■ Temperature & Humidity **Thermal Management** Liebert[©] CRV Intelligent thermal management In-the-row configuration Raised or non-raised floors Chilled or DX ■ 10kw – 30kw ■ 300mm wide

Centralised Access and Control

Avocent® DSView Management Software®



- Secure, remote, centralised data centre management
- Multi-device support
- Virtual media support
 Integrated solution for KVM and power control
- Multi-platform support
- Flexible authentication / access control

Rack Power Management

Avocent® Rack Power Manager™

- Measure and track power costs
- Review historical capacity and consumption reports
- Protection against downtime
- Accurate planning







Rack - Back View

· safter - miles

Rack - Front View

Visual Capacity Planning

Avocent® Data Centre Planner™



LCD Console

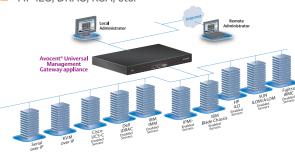
Avocent® LCD Console Tray

- High Quality 17" & 19" (1280x1024)
- USB Pass-thru
- 8/16 port digital KVM

Remote Control/Management

Avocent® Universal Management Gateway™ All-in-one digital KVM, Service Processor and Serial Management applies

- All-in-one solution
- Closed loop control
- HP iLO, DRAC, RSA, etc.



Transfer Switch

Liebert® LTS™

- Redundant power for Single Chord Devices
- Full DSP Control
- Remote management via SNMP



Rack Mounted Uninterruptible Power Supply (UPS)

Liebert® GXT4™ On-Line UPS

- True Online double conversion
- 1 20 kVA
- Extended battery packs for long runtime

QuickUPS

Referrence guide for UPS Solutions of Vertiv





Best for Desktop Computers

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

200

400

800

1000

1200

· Surge Protection - one to two surge-only outlets, differentiated by color

Puntime Chart (minutes)

Load (VA) 500VA 650VA

20

50

10

4

Shutdown & Monitoring

Liebert Nform - NFORM-EXP

External Battery Cabinet

Liebert Multilink

Intelligiet Webcard

- IS-WFBCARD

25

- 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



Best for Networks

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 Device Monitoring

Software

- Liehert Multilink
- Liehert IntelliSlot Web Card3

Runtime Chart (minutes)

	Load (%)	750VA	1000VA	1500VA	2200VA	3000VA	
	10	84	93	76	82	76	
	20	45	47	32	44	32	
es	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	

On-line UPS

Liebert® ITA

5000, 6000, 10000, 16000, 20000VA

🖈 Best for Computer Room

Parallelable, Modular, Scaleable UPS with 0.9 PF

Applications

time (>30 min)

Monitoring

Software

SiteMonitor

SNMP /SIC card

RDI I-SIC card

Small Computer Rooms

requiring long backup

Features and Benefits

- Power factor 0.9*
- Supports parallel operation up to 4 units
- 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

*6KVA is PF0.8

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
External hatteries available				

★ Best for Data Centres

On-line UPS Liebert® NXC

10, 20, 30, 40kVA

Packaged Solution

★ Best for Data Centres

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 hypass
- 10A charger module available

Applications

- Small-to-medium-sized data centres
- · Network closets
- VolP

Best for Networks

On-line UPS

Liebert® GXT4

700, 1000, 1500, 2000, 3000VA

True On-line Double Conversion UPS

Features and Benefits

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

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					

Best for Computer Room

On-line UPS

Liebert® GXT4

5000, 6000, 10000VA

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 Maintenance Bypass Switch

Applications

- Servers

Network Computers

· Computer Rooms Network Storage Devices

Monitoring Software

- Liehert 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
		Eut	ornal hattarias available

Compact UPS Systems For High Power

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
- Ecomode efficiency up to 98%
- · High capacity battery charger
- 10-20kVA ~ 4.5kW • 30-40kVA ~ 6kW

Compact and Reliable Power in a Fully Integrated

- 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

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



VertivCo.com



www.synnex.com.au

QuickUPS

Referrence guide for UPS Solutions of Vertiv



ACCESORIES



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

(1)

Start up

Guarantees that the UPS is running at optimum performance



On-Site Labor

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

Introducing the Asia Channel App from VERTIV™

The Asia Channel App is your one stop access to Vertiv resources and tools all in your mobile device. Access the information you need even when you're on the go.



What's inside the Asia Channel App?

- UPS Sizing Tool Calculator
- Get the latest promo and literature updates
- Contact to our Corporate offices and Key Distributor Partners
- Exclusive access to resources*

*Username and password required, contact an Emerson representative for more details

Available on Android smartphones and iPad tablet devices.

For Android, visit: onezineapps.com/apps/emerson-android

For iOS, visit: onezineapps.com/apps/emerson/

POWER FACTORY 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
- Instantaneous transfer to stored-energy mode in the event of an AC-input supply failure

and output frequency

- Protects networks from subtle noise and harmonics
- With plug-and-play network communications for easy connection to network management systems



Recommended fo

- Servers and storage devices
- Computer rooms
 Midsize data centres
- Voice and data servers
- LAN and WAN servers
- Dynamic Output
 Option

 Power Factor
 Correction

 INVERTER

 LOAD

 BATTERY

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