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AC Power / UPS

Liebert® PSA

Performance Power Protection for 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 on model size
- 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

Liebert® GXT4

True On-line Double Conversion UPS with 0.9 Power Factor



Features and Benefits

- On-line double conversion UPS
- High Output Power factor(0.9)
- LCD display
- High efficiency (97%) in ECO Mode
- Expandable to 6 external battery modules
- Rail kit included
- 2 years warranty

Applications

- Network Computers
- Large Network Peripherals
- Network Storage Devices

Monitoring Software & Accessories

- Liebert Multilink
- Intellislot Webcard - IS-WEBCARD (Std in 5.6 & 10kVA)
- Liebert Nform - NFORM-EXP
- Maintenance Bypass Switch
- External Battery Cabinet

Liebert® ITA

Parallelable, Modular, Scaleable UPS with 0.9 Power Factor



Features and Benefits

- On-line double conversion UPS
- High Output Power factor(0.9*)
- LCD display
- Supports parallel operation up to 4 units (3+1)
- Efficiency up to 94%
- Backup time prolonged through cascaded connection of large capacity battery bank
- 2 years warranty

Applications

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

Shutdown & Monitoring Software

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

*0.9kVA 0.8 Output PF

Liebert® GXT MT+

Compact Tower UPS for High Performance Power Protection



Features

- True on-line double-conversion technology
- DSP technology guarantees high performance
- 0.8 Output Power Factor
- Wide input voltage range (110-300 VAC)
- 0.99 input power factor correction
- 50Hz/60Hz frequency converter mode
- Configurable to energy saving mode (ECO)
- Programmable power management outlets
- Emergency power off function (EPO)
- Generator compatible
- SNMP/USB/RS-232 communications
- 3-stage extendable charging design for optimized battery performance
- Extended runtime capability by building up additional battery resources
- Maintenance bypass available
- Optional N+X parallel redundancy

Applications

- Small-size Data Centre
- Telecommunication Equipment
- VoIP
- Small Office Network
- Computer Rooms
- Process Automation Equipment
- Network Storage Devices

Liebert® NXC

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 60mins. of integrated autonomy
- Easy site installation and configuration
- Ecomode 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)

Applications

- Medical facilities
- Laboratories
- Education
- Retail brands

Liebert® eXM™

Efficient, Flexible Power Optimized for Midsize Applications



Features and Benefits

- Unity output PF (kVA=kW)
- Powerful battery charging capability
- Integrated transformer option
- LIFE™ remote diagnostic and preventive monitoring service
- ECO Mode option delivers over 99% efficiency, while the Double Conversion Mode has been optimized to exceed 96%
- Flexible configurations provides an ideal mix of both row-based and room-based benefits, optimized to deliver excellent performance at low total cost of ownership and allow organizations to meet stringent Service Level Agreements
- Internal and external architecture is rugged enough to handle input faults, load faults, temporary overloads, input power disturbances and even industrial environment

Best suited for:

- Banking, Financial and Insurance
- Education
- Government
- Healthcare
- Retail and Wholesale
- Telecom

UPS Accessories



Web Management & Network Monitoring



Guide rail kit for rack mounting of UPS



Power Output Distribution & Maintenance Bypass Switch



Automatic Transfer Switch (10A C14 Input, 6 way C13 Outlets)

ABOUT INGRAM MICRO

Ingram Micro helps businesses fully realize the promise of technology™— helping them maximize the value of the technology that they make, sell or use. With its vast global infrastructure and focus on cloud, mobility, supply chain and technology solutions, Ingram Micro enables business partners to operate more efficiently and successfully in the markets they serve. No other company delivers as broad and deep a spectrum of technology and supply chain services to businesses around the world.

Visit nz.ingrammicro.com to learn more

AC Power / PDU



MPI Intelligent PDU

Monitored and Controlled PDU Operation

- Single-phase input that supports strip / branch-level metering or strip / branch -level metering and outlet switching
- Measures and monitors voltage, current (branch), frequency, power (kW), energy consumption (kWh) and power factor.
- Threshold / alert capabilities provide preemptive 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



Liebert® MPH2

Monitored and Controlled PDU Operation

- Extensive measurement functions (power, current, voltage and energy), with high measurement accuracy of up to ± 1%
- Provides compatible monitoring platform for Liebert MPH and Liebert MPX, offering seamless operation if deployed together
- Controls and manages individual receptacles: shuts down non-essential equipment during power outages maximizing availability and back-up power
- Industry-leading operating temperature: up to 55°C
- Predicts over-current conditions before being critical
- Up to 4 Liebert MPX/MPH can be controlled via one IP address



Liebert® MPX

Modular PDU with Monitored and Controlled PDU Operation

- The Liebert MPX is a modular PDU; input and output models can be flexibly configured as required
- Allows user to add individual hot-swappable modules for capacity as demand increases
- Controls and manages individual receptacles and or groups of loads and devices; shuts down non essential equipment during power outage
- Expanded branch overload protection, minimizes threat of cascading PDU overload
- Employs energy efficient receptacle control technology
- Output modules can be changed during running operation; no downtime

Thermal Management

Liebert® CRV

Intelligent Thermal Management for Data Centre Equipment



600 mm



300 mm

Key Features

- High efficiency at full and part load
- Installs within the row of racks
- Variable speed EC fans and variable capacity scroll compressor
- Liebert iCOM controls deliver automatic performance optimization
- Available in 600 mm and 300 mm wide
- Field adjustable air baffles

Benefits

- 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 energy consumption
- Up to 10 racks per cooling unit may be monitored to improve system performance and report rack temperatures

Applications

- Installs at the ends or within the row of racks on non-raised or raised floor applications
- Ideal for hot/cold aisle configurations
- Optimal performance when used with SmartAisle

Liebert® DM

High Performance, Sensible Cooling for Small Computer Rooms and Network Closets



Variants

- Air Cooled up to 12kW is max DM size

Key Features

- Energy saving mode available
- Load sharing and duty cycling
- Provides consistent and stable operating environment 24 x 7 x 365
- Low mean time to repair (MTTR)
- Standard RS485 port for monitoring
- Highly efficient cooling system
- Network management via SMTP/SNMP/HTTP
- Ultra wide ambient temperature range from -10 to +46C
- High sensible heat ratio with scroll compressor technology

Applications

- Small and medium sized computer rooms
- UPS and battery rooms
- Outdoor electronic and communication equipment rooms
- Transformer stations, substations

Channel Service

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

CONTACTS

Vertiv Australia & New Zealand

AUSTRALIA
Head Office:
Suite A, Level 6, 15 Talavera Road,
North Ryde, NSW 2113 Australia,
PO Box 149, Macquarie Park
Business Hub, NSW 1670, Australia
Telephone: +61 2 9805 5800
Facsimile: +61 2 9805 9550
Email: salesenp@VertivCo.com
Emergency Service Tel: 1 300 367 686

Perth (WA)
Telephone: 1 800 005 161
Emergency Service: 1 300 367 686

NEW ZEALAND
Auckland
Telephone: +64 9 443 5495

Christchurch
Ph: +64 3 339 2060
FAX: +64 3 339 2063

Melbourne (VIC)
Telephone: 1 800 005 161
Emergency Service: 1 300 367 686

Head Office:
Auckland
78 Apollo Drive Rosedale, Albany North Shore City, 0632, New Zealand
Phone: +64 9 414 0100
Freephone: 0800 INGRAM (464726)

Wellington
Level 7 TeRenCo House 86 – 96 Victoria Street Wellington, New Zealand
Phone: +64 4 470 3880

Victoria
40 Ballarat Way Wigram Christchurch, 8042, New Zealand
Phone: +64 3 339 2850

Website: nz.ingrammicro.com

Access & Control

Avocent® LCD Console Trays

Rack Management in 1U Space



Key Features

- Local Rack Console
- Large Screen: 16x9 18.5" with variable resolutions for optimal performance
- Form Factor: Trays are easy to access, yes lock securely in and only 1U preserving rack space
- KVM Compatibility: LRA Consoles are compatible with all Avocent® data centre KVM switches
- On-Screen Display: Easy-touch intuitive design in multiple languages
- Provides conventional access and control in the data centre for emergencies as well as extended use
- Ease of use: Convenient, full 103-keys keyboard with a full number pad
- 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

Avocent® AV KVM Switch

UPS and PS/2 KVM Switching Built for SMB Server Room Environments

Key Features

- **Local Port:** Support for USB and/or PS/2 user keyboards and mice.
- **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.
- **Space-Saving:** CAT-5, thin cabling saves space in the rack and allows up to a 100-foot distance between the server and the switch.
- **Intelligent Cabling:** Server interface modules and integrated access cables automatically assign and retain unique server names for each attached server.
- **Powerful User Access Control:** An administrator 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 authentication requirements.

Avocent® Universal Management Gateway

All-in-one digital KVM, Service Processor and Serial Management Appliance

Features and Benefits

- Comprehensive DCIM platform in a single pane of glass
- Convenient single U chassis – reduced rack space and footprint
- Complete connectivity (IPMI, SNMP, OPC, Modbus, BACnet, Velocity)
- Physical sensor aggregation
- Easy installation across various remote access technologies
- Up to 40 simultaneous KVM sessions
- Up to 1024 service processors; wide variety of servers managed
- Up to 40 full auto-sensing ports
- KVM and SPM capability per port (using the UIQIO-V2)
- Data collection – up to 10,000 data points per minute
- Real-time information across IT and facilities

Monitoring

Liebert® RDU-A G2

Intelligent Monitoring Platform for Data Centre Facilities



Key Features

- Intelligent monitoring hardware that combines monitoring of equipment, environment and safety of the infrastructure
- Flexible structural design enabling customized configurations according to specific requirements
- Communication gateway for the Liebert RDU-M, giving IT administrators a comprehensive view of the IT infrastructure up to the equipment level
- Allows administrators to perform comprehensive monitoring of the health and status of the equipment, view historical information and transmit controls or commands via a secure web page
- 3rd party communications: SNMP, Modbus 485, contact closure

Racks & Integrated Solutions

Vertiv SmartCabinet™

Intelligent, Integrated Infrastructure Solution in an Enclosure

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 the rack for better temperature and humidity control, expanding life-span of IT equipment, low noise level. Highly suitable for office environment
- **Highly Efficient:** Built-in UPS and cooling equipment that uses DC frequency conversion, resulting to energy savings
- **User-friendly interface:** Large 7-inch LCD touch panel that allows for easy access to system status/alarms/setting
- **Fast deployment:** Compared to traditional computer room build
- **Central Management:** optional feature of RDU-M that provides central management of multiple SmartCabinet™ sites



S-Series

Superior Rack Solution

Key Features

- Strong and durable solid frame that can hold up to 1200KG static load
- 78% open high perforated doors for optimal air flow
- Convenient tool-less installation of cable and air flow management
- Seismic solution is available for critical application
- Fast deployment levelling feet
- 3 point swing lock

S-Series Rack includes:

- Single arc mesh front door
- Double flat rear mesh doors
- 3 point swing lock
- Roof top with cable entry plates
- 1 pair of side panels. Optional locking version available.
- 4 x (19") EIA-310 vertical mounting rails
- 4 fast deploying levelling feet and 4 casters
- 42U vertical cable tray for dual PDU mounting x 2
- All rack panels are inherently grounded
- 50 sets of captive M6 nuts and M6 screws
- Integrated baying kit
- Open bottom area (optional cover)



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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™

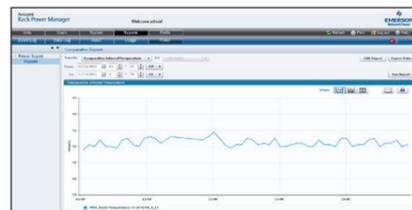


- Secure, remote, centralised data centre management
- Multi-device support
- Virtual media support
- Integrated solution for KVM and power control
- Multi-platform support
- Flexible authentication / access control

Rack Power Management

Avocent® Rack Power Manager™

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



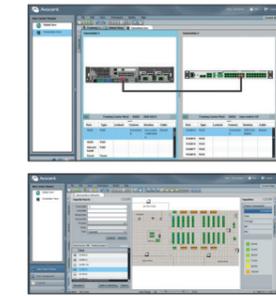
Rack - Back View



Rack - Front View

Visual Capacity Planning

Avocent® Data Centre Planner™



- Inventory management
- Configuration management
- Capacity tracking
- Reporting
- Intuitive visual interface

LCD Console

Avocent® LCD Console Tray

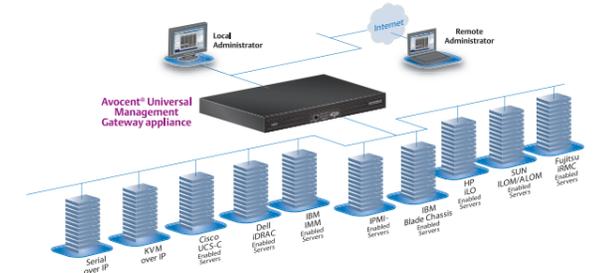
- High Quality 17" & 19" (1280x1024)
- USB Pass-thru
- 8/16 port digital KVM

Remote Control/Management

Avocent® Universal Management Gateway™

All-in-one digital KVM, Service Processor and Serial Management appliance

- 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