



# IBM 11000VA LCD 5U Rack UPS option and battery module available for IBM System x and BladeCenter servers

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## At a glance

IBM® 11000VA LCD 5U Rack Uninterruptible Power Supply (UPS) offering provides rack-dense power protection with increased efficiency and simplified power management to safeguard high availability IBM System x® and BladeCenter® server environments.

- 5U 11000VA (10,000 W) rack mount offering
- Up to 96% energy efficiency in high efficiency mode
- Up to 91% efficient in converter mode when poor power conditions require protection against four additional line quality irregularities
- Nine-language graphical Liquid Crystal Display (LCD) which provides intuitive, at-the-rack management and monitoring capabilities
- Hot-swappable batteries for maximum uptime, availability, and ease of maintenance
- ABM three-stage charging technology significantly extends battery service life and optimizes recharge time
- Standard intelligent Power Manager Supervisory software to monitor, manage, and gradually shut down the connected load in the event of a power failure
- Use of 11000VA Extended Battery Modules (EBM) (69Y1986) for additional support for runtime requirements
- Optional Network Management Card (46M4110) for enhanced UPS monitoring and control
- Optional Environmental Monitoring Probe (46M4113) for thermal management requirements
- Integration with IBM Systems Director Active Energy Manager™ (AEM) for single pane of glass power and thermal trending analysis and management

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

## Overview

In today's high availability server environments, unplanned power outages or line quality irregularities can have a considerable financial impact on small, medium, and large enterprise businesses. Selecting the right uninterruptible power supply (UPS) can efficiently, reliably, and affordably help protect against these potentially costly incidents.

The new power-dense IBM 11000VA LCD Rack UPS (machine type 5395) offering provides maximum protection, increased efficiency, and simplified power management to safeguard IBM System x and BladeCenter server environments.

This IBM 5395 LCD Rack UPS offering comes in a space-efficient 11000 VA 5U rack mount design. This model is equipped to meet the requirements of your highest availability systems.

- 11000 VA/10,000 W 5U Rack
  - 53959KX (200V/208V/230V) eight IEC 320 C19 receptacles

This unit is designed to operate at a greater than 94% efficiency rating at full load and can increase uptime, with next-generation power protection, while helping reduce operating costs.

This new offering also provides intuitive power management and monitoring capabilities. The intelligent three-button, dual-color backlight graphical Liquid Crystal Display (LCD) features a bright, easy-to-navigate panel that provides configurability and displays important status information in nine languages: English, French, German, Spanish, Russian, Korean, Japanese, Simplified Chinese, and Traditional Chinese. Runtime, load troubleshooting, and other vital information are also exhibited. Intelligent power manager supervisory software is also standard to monitor, manage, and to gradually shut down the connected server loads in the event of an extended power interruption.

It also comes equipped with a communication bay for installation of an optional Network Management Card (46M4110). The Network Management Card provides convenient over-the-network UPS remote monitoring and management through a standard web browser. An optional Environmental Monitoring Probe (46M4113) is also available for thermal (temperature and humidity) management requirements.

IBM Systems Director Active Energy Manager (AEM) provides an array of new features that allow power and thermal trending analysis for improved power management. By plugging systems into an IBM UPS, AEM is able to collect power information for each device, presenting a more complete view of energy usage within the data center. With access to accurate, detailed information on power usage right at their fingertips, IT and facility managers are now able to manage the data center for optimal energy efficiency, migrating workloads to alleviate hot spots or transferring work from underutilized systems to conserve energy.

The new IBM 5395 LCD Rack UPS unit also features ABM technology, which incorporates sophisticated sensing circuitry and an innovative three-stage charging technique to significantly extend battery service life and optimize recharge time. ABM also provides up to a 60-day notification when a hot-swappable battery is approaching the end of its useful life. Hot-swappable batteries enable maximum uptime, availability, and ease of maintenance.

All IBM 5395 LCD Rack UPS units come equipped with intelligent load segments. This individual receptacle groups can be programmed and controlled allowing mission-critical devices to be prioritized during shutdown to preserve battery runtime. For applications requiring extended backup times, an external battery module can also be added to the 11000VA model to deliver enough runtime to gracefully shutdown critical systems during a prolonged power outage.

IBM 11000VA LCD 5U Rack UPS has a three year warranty.

### ***Feature exchange***

None

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## Key prerequisites

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The 11000VA LCD power supply is ideal for environments where high availability servers and components require backup power to sustain business activity. The following customer-supplied wall outlets are required:

- UPS 11000VA LCD 5U Rack UPS - 208/230 Vrms Nominal, 51.4/46.2 Arms Nominal (single phase) supplied through an input terminal block

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## Planned availability date

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February 9, 2011

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## Description

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The 11000VA LCD 5U UPS offering includes all the components necessary to set up and support rack servers.

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### Communications and management

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- Interface port: DB-9 RS-232, and built-in USB
- Management software included:
  - IBM UPS Management Software
- Emergency Power Off (EPO): Terminal provided on the UPS where a separate external EPO switch can be connected to the UPS
- Optional Network Management card:
  - Built in Ethernet 100M, and RS232 Settings/AUX Input

System SEO Number	Processor	Memory	HDD Interface	CD-ROM HDD
None	None	None	None	None

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## Product positioning

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In the System x line of UPS offerings, the 11000VA LCD 5U UPS option adds a higher level of power support for IBM systems. This product is intended to replace the 21304RX IBM UPS 10000XHV. This new offering has much higher watt-per-U space, higher quality power conditioning, and more management options.

This UPS product joins the currently available IBM UPS family; it is a high-availability UPS option that occupies 5U of rack space.

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## Product number

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### Single Entity Offerings (SEOs)

Description	SEO number
IBM 11000VA LCD 5U Rack UPS (200V/208V/230V)	53959KX

## Options numbers

Description	SEO number
IBM 11000VA UPS 3U Extended Battery Module	69Y1986

The following are newly announced features on the specified models of the IBM xSeries® 5395 machine type.

Description	MT	Model	Feature
5395-RU5	5395	RU5	
IBM 11000VA LCD 5U Rack UPS (200V/208V/230V)	5395	RU5	6662
Non-Spillable Battery Label	5395	RU5	A12R

The following are features already announced for the 5395 machine type.

Description	MT	Model	Feature
5395-RU5	5395	RU5	
EMEA Long Leadtime Configurations	5395	RU5	1763
Hungary CHW plant 9SH	5395	RU5	1764
Guad CHW plant 9KQ	5395	RU5	1765
ISTC CHW 9K2	5395	RU5	1766
RTP CHW 9NR	5395	RU5	1767
Offload Manufacturing to Guadalajara HVEC	5395	RU5	1768
Offload Manufacturing to RTP HVEC	5395	RU5	1769
Offload Manufacturing to ISTC	5395	RU5	1770
Capacity Scheduling Service	5395	RU5	1772
Custom SLA Scheduling Service	5395	RU5	1796
Custom Asset Tagging - Standard	5395	RU5	2200
Custom Asset Tagging - Enhanced	5395	RU5	2201
Request for Global Trade Number (UPC or EAN)	5395	RU5	2207
Custom Labeling	5395	RU5	2220
Custom Palletization	5395	RU5	2221
Rack Installation >1U Component	5395	RU5	2306
Department of Defense UID Label	5395	RU5	2320
Rack 01	5395	RU5	3101
Rack 02	5395	RU5	3102
Rack 03	5395	RU5	3103
Rack 04	5395	RU5	3104
Rack 05	5395	RU5	3105
Rack 06	5395	RU5	3106
Rack 07	5395	RU5	3107
Rack 08	5395	RU5	3108
Rack 09	5395	RU5	3109
Rack 10	5395	RU5	3110
Rack 11	5395	RU5	3111
Rack 12	5395	RU5	3112
Rack 13	5395	RU5	3113
Rack 14	5395	RU5	3114
Rack 15	5395	RU5	3115
Rack 16	5395	RU5	3116
Rack 17	5395	RU5	3117
Rack 18	5395	RU5	3118
Rack 19	5395	RU5	3119
Rack 20	5395	RU5	3120
Rack 21	5395	RU5	3121
Rack 22	5395	RU5	3122
Rack 23	5395	RU5	3123
Rack 24	5395	RU5	3124
Rack 25	5395	RU5	3125
Rack 26	5395	RU5	3126
Rack 27	5395	RU5	3127
Rack 28	5395	RU5	3128
Rack 29	5395	RU5	3129
Rack 30	5395	RU5	3130
Rack 31	5395	RU5	3131
Rack 32	5395	RU5	3132
Rack 33	5395	RU5	3133

Rack 34	5395	RU5	3134
Rack 35	5395	RU5	3135
Rack 36	5395	RU5	3136
Rack 37	5395	RU5	3137
Rack 38	5395	RU5	3138
Rack 39	5395	RU5	3139
Rack 40	5395	RU5	3140
Rack 41	5395	RU5	3141
Rack 42	5395	RU5	3142
Rack 43	5395	RU5	3143
Rack 44	5395	RU5	3144
Rack 45	5395	RU5	3145
Rack 46	5395	RU5	3146
Rack 47	5395	RU5	3147
Rack 48	5395	RU5	3148
Rack 49	5395	RU5	3149
Rack 50	5395	RU5	3150
Rack 51	5395	RU5	3151
Rack 52	5395	RU5	3152
Rack 53	5395	RU5	3153
Rack 54	5395	RU5	3154
Rack 55	5395	RU5	3155
Rack 56	5395	RU5	3156
Rack 57	5395	RU5	3157
Rack 58	5395	RU5	3158
Rack 59	5395	RU5	3159
Rack 60	5395	RU5	3160
Rack 61	5395	RU5	3161
Rack 62	5395	RU5	3162
Rack 63	5395	RU5	3163
Rack 64	5395	RU5	3164
Rack location U01	5395	RU5	3201
Rack location U02	5395	RU5	3202
Rack location U03	5395	RU5	3203
Rack location U04	5395	RU5	3204
Rack location U05	5395	RU5	3205
Rack location U06	5395	RU5	3206
Rack location U07	5395	RU5	3207
Rack location U08	5395	RU5	3208
Rack location U09	5395	RU5	3209
Rack location U10	5395	RU5	3210
Rack location U11	5395	RU5	3211
Rack location U12	5395	RU5	3212
Rack location U13	5395	RU5	3213
Rack location U14	5395	RU5	3214
Rack location U15	5395	RU5	3215
Rack location U16	5395	RU5	3216
Rack location U17	5395	RU5	3217
Rack location U18	5395	RU5	3218
Rack location U19	5395	RU5	3219
Rack location U20	5395	RU5	3220
0.6m Yellow Cat5e Cable	5395	RU5	3791
1.5m Yellow Cat5e Cable	5395	RU5	3792
3m Yellow Cat5e Cable	5395	RU5	3793
10m Yellow Cat5e Cable	5395	RU5	3794
25m Yellow Cat5e Cable	5395	RU5	3795
0.6m Green Cat5e Cable	5395	RU5	3796
1.5m Green Cat5e Cable	5395	RU5	3797
3m Green Cat5e Cable	5395	RU5	3798
10m Green Cat5e Cable	5395	RU5	3799
25m Green Cat5e Cable	5395	RU5	3800
0.6m Blue Cat5e Cable	5395	RU5	3801
1.5m Blue Cat5e Cable	5395	RU5	3802
3m Blue Cat5e Cable	5395	RU5	3803
10m Blue Cat5e Cable	5395	RU5	3804
25m Blue Cat5e Cable	5395	RU5	3805
IBM 1100VA UPS 3U Extended Battery Module	5395	RU5	5735
Datacenter UV Program Offering	5395	RU5	7827
Datacenter UV w/ High Availability Program Offering	5395	RU5	7828
Customer Solution Center Services	5395	RU5	7831
e1350 Special Bid Solution Component	5395	RU5	7929
xSeries Datacenter Scalable Solution	5395	RU5	8024
Consolidate Shipment	5395	RU5	8031

e1350 Solution Component	5395	RU5	8034
xSeries Datacenter High Availability Solution	5395	RU5	8035
TAA Compliant Order	5395	RU5	8067
General Racking Solution	5395	RU5	8072
No Publications Selected	5395	RU5	8086
Integrate in manufacturing	5395	RU5	8971
Ship Uninstalled (Safety)	5395	RU5	8972
System x Cluster Upgrade	5395	RU5	A103

The following are newly announced features on the specified models of the IBM xSeries 2130, 2419, 5395 machine types.

Description	MT	Model	Feature
Non-Spillable Battery Label	2130	RU1	A12R
Non-Spillable Battery Label	2419	RU1	
Non-Spillable Battery Label	5395	RU1	
		RU2	
		RU3	
		RU4	

### **Model conversions**

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None

### **Feature conversions**

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None

### **Business Partner information**

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If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=111-002>

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## **Publications**

Publications are shipped with the announced products.

The IBM Systems Information Center provides you with a single information center where you can access product documentation for IBM systems hardware, operating systems, and server software. Through a consistent framework, you can efficiently find information and personalize your access. The IBM Systems Information Center is at

<http://publib14.boulder.ibm.com/infocenter/systems>

### **IBM Publications Center Portal**

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<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided, as well as payment options via credit card. A large number of publications are available online in various file formats, which can currently be downloaded free of charge.

**Displayable softcopy publications:** None

**Source file publications:** None

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## Services

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### **Global Technology Services**

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IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

<http://www.ibm.com/services/>

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

<http://www.ibm.com/services/learning/index.html>

Select your country, and then select the product as the category.

### **System x and BladeCenter support services**

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#### ***Recommended core technical support***

When you buy IBM System x technology, include the support services you need - to help keep both your hardware and software working for you, day after day, at peak performance. It's your first step toward helping to protect your investment and sustain high levels of system availability. We offer service-level and response-time options to fit your business needs. And we'll help you get started with a core support package that includes:

- **Continuous system monitoring**  
Electronic monitoring that helps speed up problem-solving with automated, early detection of potential problems and system errors.
- **Hardware maintenance**  
World-class remote and on-site hardware problem determination and repair services.
- **Software technical support**  
Access to help line calls for fast, accurate answers to your questions during installation and throughout ongoing operations.

For more information, visit

<http://www.ibm.com/servers/eserver/xseries/services.html>

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## Technical information

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### **Specified operating environment**

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#### ***Physical specifications***

- Dimensions

- Approximate height: 212 mm (8.3 in)
- Approximate width: 438 mm (17.2 in)
- Approximate depth: 740 mm (29.1 in)
- Rack height: 5 U
- Approximate weight: 96.4 kg (218 lb)
- Shipping dimensions
  - Approximate height: 1000 mm (39.4 in)
  - Approximate width: 732 mm (28.8 in)
  - Approximate depth: 600 mm (23.6 in)
  - Approximate weight: 110 kg (242 lb)

### **IBM 11000VA LCD 5U UPS**

- **Electrical specifications**
  - UPS 11,000 VA / 10,000 W 5U Rack - (single phase)
    - 53959KX 208V/230V AC, 60/50 Hz, 51.1/46.3 A
  - Output through eight IEC 320 C19 receptacles
  - Audible noise at 1 meter - 55 dBa (100% load)
  - Online thermal dissipation - 9KX - 2179 btu/hr

### **Standards**

None

### **Operating environment**

- Temperature: 0° to 40.0° C (32° to 104° F) at 0 to 2,000 m (0 to 6,600 ft)
- Relative humidity: 5% to 95%
- Maximum altitude: 3,000 m (9,843 ft)

### **Hardware requirements**

The IBM 11000VA LCD 5U UPS must be installed in an Enterprise or S2 rack or a 19-inch EIA-310-D industry-standard rack.

### **Equipment approvals and safety**

- FCC
- UL
- CSA or cUL
- CE Mark
- GOST
- CB Report
- VCCI
- C-Tick (Australia)
- SABS (South Africa)

### **Software requirements**

The 11000VA UPS provides backup power to your server regardless of the operating system used. However, to enjoy the benefits and manageability features provided with the IBM UPS Management Software (which is necessary to shutdown the server gracefully during a power outage by receiving and processing the shutdown commands from the UPS or NMC based on the operating state of the UPS) via SNMP or serial, one of the following operating systems must be used:



- Windows® XP Professional Edition
- Windows XP Professional x64 Edition
- Windows Server 2003/2003 R2, Enterprise Edition
- Windows Server 2003/2003 R2, Enterprise x64 Edition
- Windows Server 2003/2003 R2, Standard Edition
- Windows Server 2003/2003 R2, Standard x64 Edition
- Windows Vista Business x86
- Windows Vista Business x64
- Windows Vista Ultimate x86
- Windows Vista Ultimate x64
- Windows 7 Prof x86
- Windows 7 Prof x64
- Windows 7 Ultimate x86
- Windows 7 Ultimate x64
- Windows Server 2008, Enterprise x86 Edition
- Windows Server 2008, Enterprise x64 Edition
- Windows Server 2008, Standard x86 Edition
- Windows Server 2008, Standard x64 Edition
- Windows Server 2008, Standard Edition R2 x64 Edition
- Red Hat Enterprise Linux® 5 Server Edition
- Red Hat Enterprise Linux 5 Server x64 Edition
- Red Hat Enterprise Linux 4 AS for Intel® x86
- Red Hat Enterprise Linux 4 AS for 64 bit
- Red Hat Enterprise Linux 4 ES for x86
- Red Hat Enterprise Linux 4 ES for 64 bit
- Red Hat Enterprise Linux 4 AS for iSeries® and pSeries®

Also, to enjoy the benefits and manageability features provided with the IBM UPS Management SW via USB, one of the following operating systems must be used:

- Windows XP Professional Edition
- Windows XP Professional x64 Edition
- Windows Server 2003/2003 R2, Enterprise Edition
- Windows Server 2003/2003 R2, Enterprise x64 Edition
- Windows Server 2003/2003 R2, Standard Edition
- Windows Server 2003/2003 R2, Standard x64 Edition
- Windows Vista Business x86
- Windows Vista Business x64
- Windows Vista Ultimate x86
- Windows Vista Ultimate x64
- Windows 7 Prof x86
- Windows 7 Prof x64
- Windows 7 Ultimate x86
- Windows 7 Ultimate x64
- Windows Server 2008, Enterprise x86 Edition
- Windows Server 2008, Enterprise x64 Edition
- Windows Server 2008, Standard x86 Edition
- Windows Server 2008, Standard x64 Edition
- Windows Server 2008, Standard Edition R2 x64 Edition

**Program requirements:** None

### ***Compatibility***

The IBM UPS 11000VA LCD UPS is compatible with all System x servers and other supporting devices that require ac power.

### ***Limitations***

11000VA LCD 5U Rack UPS requires 5U of rack space in one of the following rack cabinets:

- IBM 42U Enterprise Rack
- IBM S2 42U Dynamic Rack
- IBM S2 42U Rack
- IBM S2 25U Rack
- IBM 11U Office Enablement Kit
- IBM S2 42U 1200mm deep rack
- IBM S2 47U 1200mm deep rack

### ***User group requirements***

This announcement satisfies or partially satisfies the requirements from one or more of the worldwide user group communities. Groups include COMMON, COMMON Europe, Guide Share Europe (GSE), InterAction (Australia/New Zealand), Japan Guide Share (JGS), and SHARE Inc.

### **Planning information**

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#### ***Customer responsibilities***

##### ***11000VA LCD 5U Rack UPS***

The IBM LCD Rack UPS is designated as customer setup. Customer setup instructions are shipped with each system. The UPS must be installed in an Enterprise or S2 rack or a 19-inch, EIA-310-D industry-standard rack.

#### ***Rack installations***

11000VA LCD 5U Rack UPS requires 5U of rack space in one of the following rack cabinets:

- IBM 42U Enterprise Rack
- IBM S2 42U Dynamic Rack
- IBM S2 25U Rack
- IBM S2 42U Rack
- IBM 11U Office Enablement Kit
- IBM S2 42U 1200mm deep rack
- IBM S2 47U 1200mm deep rack

**Note:** Due to the high weights of UPS and EBM options, it is very important that customers follow IBM recommendations on rack placement. For access to IBM rack configuration tools, refer to

<http://www-03.ibm.com/systems/x/hardware/configtools.html>

#### ***Cable orders***

None

## ***Installability***

The IBM LCD Rack UPS requires about 30 minutes for installation. Installation includes unpacking, attaching customer provided line cord, setting up, and powering on the system.

## ***Packaging***

### **11000VA LCD 5U Rack UPS**

Product	Package description	Boxes
IBM 11000VA LCD 5U Rack UPS	System unit carton	1

#### Contents:

Base UPS with X-SNMP/Web Adapter Card with Serial Functionality

Accessory kit, includes:

- Upper and lower front bezels
- Rack Mount Kit with Rails and Hardware
- Rack Installation Instructions
- Serial Cable (3.7 m, 12 ft.)
- USB Cable
- Shipping bracket
- REPO Connector
- Documentation Kit, includes:
  - Important Notices Manual
  - Warranty Flyer
  - Documentation CD
  - Software CD

The 11000VA LCD 5U Rack UPS is shipped as a single package. Other items are in zipped bags.

## **Retail only**

### *Packaging dimensions/weight*

- Single box (HxDxW):  
Refer to [Physical specifications](#) section.  
Dimensions and weight vary.

**Note:** All measurements are approximate.

## ***Supplies***

### **For end users**

IBM 11000VA LCD 5U Rack UPS can be purchased through dealers around the world.

## **Security, auditability, and control**

It is a customer's responsibility to ensure that the server is secure to prevent sensitive data from being removed.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

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## IBM Electronic Services

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IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

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## Terms and conditions

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### ***MES discount applicable***

No

### ***Field installable feature***

Yes

### ***Warranty period***

Three years parts and no labor. An IBM part or feature installed during the initial installation of an IBM machine is subject to a full warranty effective on the date of installation of the machine. An IBM part or feature which replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty effective on its date of installation. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature is the same as the machine it is installed.

### ***Customer setup***

Yes

### ***Machine code***

No license terms apply.

## **IBM Global Financing**

Yes

To obtain copies of the IBM Statement of Limited Warranty, contact your reseller or IBM.

In the United States, call 800-IBM-SERV (426-7378), or write to:

Warranty Information  
P.O. Box 12195  
Research Triangle Park, NC 27709  
Attn: Dept JDJA/B203

### **Warranty period**

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- 5395 - Three years parts, no labor (3/0)
- Optional feature - Three years parts, no labor(3/0)

Optional IBM features initially installed in an IBM machine carry the same warranty period as the machine. If installed after the initial machine installation, they carry the balance of the machine warranty or the optional feature warranty, whichever is greater.

The following have been designated as consumables or supply items and are, therefore, not covered by this warranty:

- No parts are affected.

The type of service is Customer Replaceable Unit.

### **Customer Replaceable Unit (CRU) Service**

Based upon availability, a CRU will be shipped for next-business-day (NBD) delivery. IBM specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU, and you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

The following parts have been designated as Tier 1 CRUs:

- 5U 11000VA 200/208V Rack UPS Chassis
- 5U 11000VA 230V Rack UPS Chassis
- Upper front bezel
- Lower front bezel
- Rail kit
- RS232 Communications Cable
- USB Cable
- REPO Connector
- NMC Card Setting Cable
- Network Management Card Kit
- UPS 11000VA Battery
- Environmental Monitoring Probe kit
- IBM 11000VA UPS 3U Extended Battery Module

**Note:** Next day delivery of UPS batteries may not be possible in all locations due to transportation and logistics.

Call IBM at 1-800-IBM-SERV (426-7378) to assist with problem isolation for hardware to determine if CRU replacement is required. Telephone support may be subject to additional charges, even during the limited warranty period.

### ***International Warranty Service***

International Warranty Service (IWS) is available in selected countries or regions.

The warranty service type and the service level provided in the servicing country may be different from that provided in the country in which the machine was purchased.

Under IWS, warranty service will be provided with the prevailing warranty service type and service level available for the IWS-eligible machine type in the servicing country, and the warranty period observed will be that of the country in which the machine was purchased.

To determine the eligibility of your machine and to view a list of countries where service is available, visit

<http://www-304.ibm.com/jct01004c/systems/support/supportsite.wss/warrantyform?brandind=5000008>

For more information on IWS, refer to Services Announcement [601-034](#), dated September 25, 2001.

### ***Licensing***

Programs included with this product are licensed under the terms and conditions of the License Agreements that are shipped with the system.

### ***Warranty service upgrade***

None

CRUs will be provided as part of the machine's standard warranty CRU Service except that you may install a Tier 1 CRU yourself.

### ***CRU Service***

If your problem can be resolved with a CRU (for example, keyboard, mouse, speaker, memory, or hard disk drive), IBM will ship the CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM at any time on your request.

IBM specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU, and you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

### ***On-site Service***

None

### ***Maintenance service (ICA)***

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None

A CRU will be provided as part of the machine's standard warranty CRU Service except that you may install a Tier 1 CRU yourself.

### *On-site Service*

None

## **Non-IBM parts support**

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### ***Warranty service***

IBM is now shipping machines with selected non-IBM parts that contain an IBM field replaceable unit (FRU) part number label. These parts are to be serviced during the IBM machine warranty period. IBM is covering the service on these selected non-IBM parts as an accommodation to its customers, and normal warranty service procedures for the IBM machine apply.

If IBM has a Technical Service Agreement with the manufacturer of the failing part, or if the failing part is an accommodations part (a part with an IBM FRU label), IBM may also source and replace the failing part at no additional charge. For all other non-IBM parts, customers are responsible for sourcing the parts. Installation labor is provided at no additional charge, if the machine is covered under a warranty service upgrade or a maintenance service.

### ***IBM hourly service rate classification***

One

### ***Field-installable features***

Yes

### ***Model conversions***

No

### ***Machine installation***

Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

### ***Graduated program license charges apply***

No

### ***Licensed internal code and licensed machine code***

This product does not contain Licensed Internal Code or Licensed Machine Code.

### ***Educational allowance***

None

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## **Prices**

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For current prices, contact IBM at 888-Shop-IBM (746-7426) or visit

<http://www-03.ibm.com/systems/x/>

Description	Machine type	Model number	SEO number
IBM 11000VA LCD 5U Rack UPS (200V/208V/230V)	5395	9KX	53959KX

Options	Part number
Description	
IBM 11000VA UPS 3U Extended Battery Module	69Y1986

The following are newly announced features on the specified models of the IBM xSeries 2130 machine type.

Description	Model Number	Feature Number	Initial/MES/Both/Support
Non-Spillable Battery Label	RU1	A12R	Initial

The following are newly announced features on the specified models of the IBM xSeries 2419 machine type.

Description	Model Number	Feature Number	Initial/MES/Both/Support
Non-Spillable Battery Label	RU1	A12R	Initial

The following are newly announced features on the specified models of the IBM xSeries 5395 machine type.

Description	Model Number	Feature Number	Initial/MES/Both/Support
UPS1100 5U base	RU5		
IBM 11000VA LCD 5U Rack UPS (200V/208V/230V)	RU5	6662	Initial
Non-Spillable Battery Label	RU5	A12R	Initial

The following are features already announced for the 5395 machine type.

Description	Model Number	Feature Number	Initial/MES/Both/Support
RU5	RU5		
EMEA Long Leadtime Configurations	RU5	1763	Initial
Hungary CHW plant 9SH	RU5	1764	Initial
Guad CHW plant 9KQ	RU5	1765	Initial
ISTC CHW 9K2	RU5	1766	Initial
RTP CHW 9NR	RU5	1767	Initial
Offload Manufacturing to Guadalajara HVEC	RU5	1768	Initial
Offload Manufacturing to RTP HVEC	RU5	1769	Initial
Offload Manufacturing to ISTC	RU5	1770	Initial



Capacity Scheduling Service			
	RU5	1772	Initial
Custom SLA Scheduling Service			
	RU5	1796	Initial
Custom Asset Tagging - Standard			
	RU5	2200	Initial
Custom Asset Tagging - Enhanced			
	RU5	2201	Initial
Request for Global Trade Number (UPC or EAN)			
	RU5	2207	Initial
Custom Labeling			
	RU5	2220	Initial
Custom Palletization			
	RU5	2221	Initial
Rack Installation >1U Component			
	RU5	2306	Initial
Department of Defense UID Label			
	RU5	2320	Initial
Rack 01			
	RU5	3101	Initial
Rack 02			
	RU5	3102	Initial
Rack 03			
	RU5	3103	Initial
Rack 04			
	RU5	3104	Initial
Rack 05			
	RU5	3105	Initial
Rack 06			
	RU5	3106	Initial
Rack 07			
	RU5	3107	Initial
Rack 08			
	RU5	3108	Initial
Rack 09			
	RU5	3109	Initial
Rack 10			
	RU5	3110	Initial
Rack 11			
	RU5	3111	Initial
Rack 12			
	RU5	3112	Initial
Rack 13			
	RU5	3113	Initial
Rack 14			
	RU5	3114	Initial
Rack 15			
	RU5	3115	Initial
Rack 16			
	RU5	3116	Initial
Rack 17			
	RU5	3117	Initial
Rack 18			
	RU5	3118	Initial
Rack 19			
	RU5	3119	Initial
Rack 20			
	RU5	3120	Initial
Rack 21			
	RU5	3121	Initial
Rack 22			
	RU5	3122	Initial
Rack 23			
	RU5	3123	Initial
Rack 24			
	RU5	3124	Initial
Rack 25			
	RU5	3125	Initial
Rack 26			
	RU5	3126	Initial
Rack 27			
	RU5	3127	Initial
Rack 28			
	RU5	3128	Initial

Rack 29			
Rack 30	RU5	3129	Initial
Rack 31	RU5	3130	Initial
Rack 32	RU5	3131	Initial
Rack 33	RU5	3132	Initial
Rack 34	RU5	3133	Initial
Rack 35	RU5	3134	Initial
Rack 36	RU5	3135	Initial
Rack 37	RU5	3136	Initial
Rack 38	RU5	3137	Initial
Rack 39	RU5	3138	Initial
Rack 40	RU5	3139	Initial
Rack 41	RU5	3140	Initial
Rack 42	RU5	3141	Initial
Rack 43	RU5	3142	Initial
Rack 44	RU5	3143	Initial
Rack 45	RU5	3144	Initial
Rack 46	RU5	3145	Initial
Rack 47	RU5	3146	Initial
Rack 48	RU5	3147	Initial
Rack 49	RU5	3148	Initial
Rack 50	RU5	3149	Initial
Rack 51	RU5	3150	Initial
Rack 52	RU5	3151	Initial
Rack 53	RU5	3152	Initial
Rack 54	RU5	3153	Initial
Rack 55	RU5	3154	Initial
Rack 56	RU5	3155	Initial
Rack 57	RU5	3156	Initial
Rack 58	RU5	3157	Initial
Rack 59	RU5	3158	Initial
Rack 60	RU5	3159	Initial
Rack 61	RU5	3160	Initial
Rack 62	RU5	3161	Initial
Rack 63	RU5	3162	Initial
Rack 64	RU5	3163	Initial
Rack location U01	RU5	3164	Initial
	RU5	3201	Initial

Rack location U02			
	RU5	3202	Initial
Rack location U03			
	RU5	3203	Initial
Rack location U04			
	RU5	3204	Initial
Rack location U05			
	RU5	3205	Initial
Rack location U06			
	RU5	3206	Initial
Rack location U07			
	RU5	3207	Initial
Rack location U08			
	RU5	3208	Initial
Rack location U09			
	RU5	3209	Initial
Rack location U10			
	RU5	3210	Initial
Rack location U11			
	RU5	3211	Initial
Rack location U12			
	RU5	3212	Initial
Rack location U13			
	RU5	3213	Initial
Rack location U14			
	RU5	3214	Initial
Rack location U15			
	RU5	3215	Initial
Rack location U16			
	RU5	3216	Initial
Rack location U17			
	RU5	3217	Initial
Rack location U18			
	RU5	3218	Initial
Rack location U19			
	RU5	3219	Initial
Rack location U20			
	RU5	3220	Initial
0.6m Yellow Cat5e Cable			
	RU5	3791	Initial
1.5m Yellow Cat5e Cable			
	RU5	3792	Initial
3m Yellow Cat5e Cable			
	RU5	3793	Initial
10m Yellow Cat5e Cable			
	RU5	3794	Initial
25m Yellow Cat5e Cable			
	RU5	3795	Initial
0.6m Green Cat5e Cable			
	RU5	3796	Initial
1.5m Green Cat5e Cable			
	RU5	3797	Initial
3m Green Cat5e Cable			
	RU5	3798	Initial
10m Green Cat5e Cable			
	RU5	3799	Initial
25m Green Cat5e Cable			
	RU5	3800	Initial
0.6m Blue Cat5e Cable			
	RU5	3801	Initial
1.5m Blue Cat5e Cable			
	RU5	3802	Initial
3m Blue Cat5e Cable			
	RU5	3803	Initial
10m Blue Cat5e Cable			
	RU5	3804	Initial
25m Blue Cat5e Cable			
	RU5	3805	Initial
IBM 11000VA UPS 3U Extended Battery Module			
	RU5	5735	Initial
Datacenter UV Program Offering			
	RU5	7827	Initial
Datacenter UV w/ High Availability Program Offering			
	RU5	7828	Initial

Customer Solution Center Services			
	RU5	7831	Initial
e1350 Special Bid Solution Component			
	RU5	7929	Initial
xSeries Datacenter Scalable Solution			
	RU5	8024	Initial
Consolidate Shipment			
	RU5	8031	Initial
e1350 Solution Component			
	RU5	8034	Initial
xSeries Datacenter High Availability Solution			
	RU5	8035	Initial
TAA Compliant Order			
	RU5	8067	Initial
General Racking Solution			
	RU5	8072	Initial
No Publications Selected			
	RU5	8086	Initial
Integrate in manufacturing			
	RU5	8971	Initial
Ship Uninstalled (Safety)			
	RU5	8972	Initial
System x Cluster Upgrade			
	RU5	A103	Initial

The following are newly announced features on the specified models of the IBM xSeries 5395 machine type.

Description	Model Number	Feature Number	Initial/MES/Both/Support
Non-Spillable Battery Label	RU1	A12R	Initial
	RU2		Initial
	RU3		Initial
	RU4		Initial

#### The Single Entity Offerings (SEO)

Description	SEO number
IBM 11000VA LCD 5U Rack UPS (200V/208V/230V)	53959KX

Description	Number
IBM 11000VA UPS 3U Extended Battery Module	69Y1986

Description	type	Part number	Monthly rental charge
IBM 11000VA LCD 5U Rack UPS		53959KX	N/A

Field install only	Plant install only	MES removal	Cables required
N	N	Y	Y

#### **Maintenance charges**

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None

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