

# IBM 1000VA, 1500VA, 2200VA, 3000VA, 5000VA, 6000VA, 8000VA and 11000VA UPS options for IBM System x, BladeCenter, and Flex Systems

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## At a glance

IBM® 1000VA, 1500VA, 2200VA, 3000VA 2U LCD, 5000VA, 6000VA 3U LCD, and 8000VA, 11000VA 6U Uninterruptible Power Supply (UPS) offerings provide rack-dense power protection with increased efficiency and simplified power management to safeguard high availability.

IBM System x® and BladeCenter® servers and Flex Systems environments:

- 2U 1500VA (1000 W), 2U 2200VA (1920 W), and 2U 3000VA (2700 W), 3U 5000VA, 3U 6000VA, 6U 8000VA and 6U 11000VA rack mount and tower offerings
- 95+% energy efficiency across line at 100% load
- Nine-language graphical Liquid Crystal Display (LCD) which provides intuitive, at-the-rack management and monitoring capabilities
- Hot-swappable batteries for optimum uptime, availability, and ease of maintenance
- ABM three-stage charging technology for significantly extending battery service life and optimizing recharge time
- Standard UPS Power Manager Supervisory software to monitor, manage, and to gradually shut down the connected load in the event of a power failure
- 1500VA/2200VA, 3000VA, 5000VA/6000VA, 8000VA/11000VA Extended Battery Modules (EBM) for scalable runtime requirements
- Optional Network Management Card (46M4110) for enhanced UPS monitoring and control
- The Network Management Card is standard on all models except tower models and 1500VA and 2200VA rack and tower models.
- 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

IBM's new line of Uninterruptible Power Supplies provide rack protection with increased efficiency and powerful management capabilities to safeguard high

availability IBM system x, BladeCenter, and Flex server environments. In today's high availability server environments, unplanned power outages or line quality irregularities can have a considerable financial impact on businesses of all sizes. The typical utility power is 99.9% available, but that means that there can be almost of 9 hours downtime a year, not to mention brown-outs and other power quality problems. Selecting the right IBM UPS can help protect against these potentially costly incidents:

- 1kVA and 1.5kVA space-efficient tower models
- 2U 1.5kVA, 2.2kVA and 3kVA Rack/Tower
- 3U 5kVA and 6kVA Rack/Tower
- 6U 8kVA and 11kVA Rack/Tower
- 6U 8kVA and 11kVA 3:1 Phase Rack/Tower

These units are designed to operate at high efficiency ratings at full load and can increase uptime, with a wide breath of features, while reducing operating cost. These new offerings also provide a simple-to-use Liquid Crystal Display (LCD) featuring a bright 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. Key features deliver the highest uptime:

- Power management software that delivers real power for virtualization
- All rack models are convertible to tower orientation with included stand and rotatable LCD display
- Rack models can accept up to four Extended Battery Modules (EBM) to offer even higher runtimes
- All 3kVA high voltage models and above come standard with the Network Management Card, offering the highest level of remote management and monitoring
- ABM 3-stage charging technology significantly extends battery service life and optimizes recharging times
- 8kVA and 11kVA models come standard with a Maintenance Bypass Module (MBP) offering total isolation for UPS maintenance with no disturbance to the load
- Energy Star compliance on many models

IBM UPS Power Manager (UPM) and IBM UPS Power Protector (UPP) deliver power management software that provides real power for virtualization. By integrating your IBM UPS and network card with **free** IBM software, you can monitor and manage your UPSs and connected equipment anytime, anywhere. Seamlessly integrate with VMware vCenter, Citrix XenServer, Microsoft™ SCVMM, Red Hat, and other Xen open source platforms. UPM and UPP allow you to view your entire data center on a single dashboard; and based on set power conditions, you can:

- Trigger live migrations
- Remotely shutdown a host in a cluster
- Initiate® a planned migration to a backup cloud site with no data loss

**Note:** These UPS units are not supported in a maritime environment.

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## Feature exchange

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None

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## Key prerequisites

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The following customer-supplied wall outlets are required:

- UPS 1500VA, 2200VA Rack or Tower UPS and 1000VA, 1500VA Tower UPS: 100 V to 240 V 10-20 A circuit (single phase)
- UPS 3000VA, 5000VA Rack or Tower UPS: 100 V to 240 V 20-32A circuit (single phase)
- UPS 6000VA, 8000VA and 11000VA Rack or Tower UPS 100 V to 240 V, 30-32 A circuit (single phase) hard wired from UPS terminal block
- UPS 8000VA and 11000VA 6U 3/1 Phase UPS: 380 V to 415 V 30-32 A circuit (3 phase) hard wired from UPS terminal block

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## Planned availability date

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November 5, 2014: Worldwide except:

- November 23, 2014: Brazil
- December 10, 2014: For the UPSs:
  - IBM RT5kVA 3U Rack or Tower UPS (200-240VAC) (55945KX)
  - IBM RT6kVA 3U Rack or Tower UPS (200-240VAC) (55946KX)
  - IBM RT8kVA 6U Rack or Tower UPS (200-240VAC) (55948KX)
  - IBM RT11kVA 6U Rack or Tower UPS (200-240VAC) (55949KX)
  - IBM RT8kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC) (55948PX)
  - IBM RT11kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC) (55949PX)
  - IBM 5kVA/6kVA 3U Rack or Tower Extended Battery Module (55946BX)
  - IBM 8kVA/11kVA 3U Rack or Tower Extended Battery Module (55949BX)

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## Description

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The 1000VA, 1500VA, 2200VA, 3000VA 2U offerings; 5000VA, 6000VA 3U offerings; and 8000VA, 11000VA 6U offerings include all the components necessary to set up and support rack or tower servers.

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### Communications and management

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- Interface port: DB-9 RS-232, and built-in 10 baseT
- 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.

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## Product positioning

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In the System x line of UPS offerings, the new 1000VA, 1500VA, 2200VA, 3000VA, 5000VA, 6000VA, 8000VA and 11000VA UPS options add a higher level of power support for IBM systems. These new offerings have much higher watt-per-U space, higher quality power conditioning, and more management options.

These UPS products join the IBM UPS family, adding more feature-rich high-availability UPS options that occupy 2U, 3U or 6U of rack space.

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## Product number

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### Single Entity Offerings (SEOs)

Description	SEO number
IBM RT1.5kVA 2U Rack or Tower UPS (100-125VAC)	55941AX
IBM RT1.5kVA 2U Rack or Tower UPS (200-240VAC)	55941KX
IBM RT2.2kVA 2U Rack or Tower UPS (100-125VAC)	55942AX
IBM RT2.2kVA 2U Rack or Tower UPS (200-240VAC)	55942KX
IBM RT3kVA 2U Rack or Tower UPS (100-125VAC)	55943AX
IBM RT3kVA 2U Rack or Tower UPS (200-240VAC)	55943KX
IBM RT5kVA 3U Rack or Tower UPS (200-240VAC)	55945KX
IBM RT6kVA 3U Rack or Tower UPS (200-240VAC)	55946KX
IBM RT8kVA 6U Rack or Tower UPS (200-240VAC)	55948KX
IBM RT11kVA 6U Rack or Tower UPS (200-240VAC)	55949KX
IBM RT8kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)	55948PX
IBM RT11kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)	55949PX
IBM 1.5kVA/2.2kVA 2U Rack or Tower Extended Battery Module	55942BX
IBM 3kVA 2U Rack or Tower Extended Battery Module	55943BX
IBM 5kVA/6kVA 3U Rack or Tower Extended Battery Module	55946BX
IBM 8kVA/11kVA 3U Rack or Tower Extended Battery Module	55949BX
Tower Models	
IBM T1kVA Tower UPS (100-125VAC)	55951AX
IBM T1kVA Tower UPS (200-240VAC)	55951KX
IBM T1.5kVA Tower UPS (100-125VAC)	55952AX
IBM T1.5kVA Tower UPS (200-240VAC)	55952KX

The following are newly announced features on the specified models of the IBM xSeries 5594, 5595 machine types:

Description	MT	Model	Feature
5594-RU1	5594	RU1	
5594-RU2	5594	RU2	
5594-RU3	5594	RU3	
5594-RU6	5594	RU6	
5594-RU8	5594	RU8	
5595-TU1	5595	TU1	
5595-TU2	5595	TU2	
UID Asset Tag Label	5594	RU1 RU2 RU3 RU6 RU8	0747
UID Asset Tag Label	5595	TU1 TU2	
EMEA Long Leadtime Configurations	5594	RU1 RU2 RU3 RU6 RU8	1763
EMEA Long Leadtime Configurations	5595	TU1 TU2	
Hungary CHW plant 9SH	5594	RU1 RU2 RU3 RU6 RU8	1764
Hungary CHW plant 9SH	5595	TU1 TU2	
Guad CHW plant 9KQ	5594	RU1 RU2 RU3 RU6 RU8	1765
Guad CHW plant 9KQ	5595	TU1	

ISTC CHW 9K2	5594	TU2 RU1 RU2 RU3 RU6 RU8	1766
ISTC CHW 9K2	5595	TU1 TU2	
RTP CHW 9NR	5594	RU1 RU2 RU3 RU6 RU8	1767
RTP CHW 9NR	5595	TU1 TU2	
Offload Manufacturing to Guadalajara HVEC	5594	RU1 RU2 RU3 RU6 RU8	1768
Offload Manufacturing to RTP HVEC	5594	RU1 RU2 RU3 RU6 RU8	1769
Offload Manufacturing to ISTC	5594	RU1 RU2 RU3 RU6 RU8	1770
Offload Manufacturing to ISTC	5595	TU1 TU2	
Capacity Scheduling Service	5594	RU1 RU2 RU3 RU6 RU8	1772
Capacity Scheduling Service	5595	TU1 TU2	
Custom SLA Scheduling Service	5594	RU1 RU2 RU3 RU6 RU8	1796
Custom SLA Scheduling Service	5595	TU1 TU2	
Custom Asset Tagging - Standard	5594	RU1 RU2 RU3 RU6 RU8	2200
Custom Asset Tagging - Standard	5595	TU1 TU2	
Custom Asset Tagging - Enhanced	5594	RU1 RU2 RU3 RU6 RU8	2201
Custom Asset Tagging - Enhanced	5595	TU1 TU2	
Request for Global Trade Number (UPC or EAN)	5594	RU1 RU2 RU3 RU6 RU8	2207
Request for Global Trade Number (UPC or EAN)	5595	TU1 TU2	
Custom Unit Carton Label	5594	RU1 RU2 RU3 RU6 RU8	2220
Custom Unit Carton Label	5595	TU1 TU2	

Custom Palletization	5594	RU1 RU2 RU3 RU6 RU8	2221
Custom Palletization	5595	TU1 TU2	
Rack Installation >1U Component	5594	RU1 RU2 RU3 RU6 RU8	2306
Rack 01	5594	RU1 RU2 RU3 RU6 RU8	3101
Rack 02	5594	RU1 RU2 RU3 RU6 RU8	3102
Rack 03	5594	RU1 RU2 RU3 RU6 RU8	3103
Rack 04	5594	RU1 RU2 RU3 RU6 RU8	3104
Rack 05	5594	RU1 RU2 RU3 RU6 RU8	3105
Rack 06	5594	RU1 RU2 RU3 RU6 RU8	3106
Rack 07	5594	RU1 RU2 RU3 RU6 RU8	3107
Rack 08	5594	RU1 RU2 RU3 RU6 RU8	3108
Rack 09	5594	RU1 RU2 RU3 RU6 RU8	3109
Rack 10	5594	RU1 RU2 RU3 RU6 RU8	3110
Rack 11	5594	RU1 RU2 RU3 RU6 RU8	3111
Rack 12	5594	RU1 RU2 RU3 RU6 RU8	3112
Rack 13	5594	RU1 RU2	3113

Rack 14	5594	RU3 RU6 RU8 RU1 RU2	3114
Rack 15	5594	RU3 RU6 RU8 RU1 RU2	3115
Rack 16	5594	RU3 RU6 RU8 RU1 RU2	3116
Rack 17	5594	RU3 RU6 RU8 RU1 RU2	3117
Rack 18	5594	RU3 RU6 RU8 RU1 RU2	3118
Rack 19	5594	RU3 RU6 RU8 RU1 RU2	3119
Rack 20	5594	RU3 RU6 RU8 RU1 RU2	3120
Rack 21	5594	RU3 RU6 RU8 RU1 RU2	3121
Rack 22	5594	RU3 RU6 RU8 RU1 RU2	3122
Rack 23	5594	RU3 RU6 RU8 RU1 RU2	3123
Rack 24	5594	RU3 RU6 RU8 RU1 RU2	3124
Rack 25	5594	RU3 RU6 RU8 RU1 RU2	3125
Rack 26	5594	RU3 RU6 RU8 RU1 RU2	3126
Rack 27	5594	RU3 RU6 RU8 RU1 RU2	3127
Rack 28	5594	RU3 RU6 RU8 RU1	3128

Rack 29	5594	RU2 RU3 RU6 RU8 RU1	3129
Rack 30	5594	RU2 RU3 RU6 RU8 RU1	3130
Rack 31	5594	RU2 RU3 RU6 RU8 RU1	3131
Rack 32	5594	RU2 RU3 RU6 RU8 RU1	3132
Rack 33	5594	RU2 RU3 RU6 RU8 RU1	3133
Rack 34	5594	RU2 RU3 RU6 RU8 RU1	3134
Rack 35	5594	RU2 RU3 RU6 RU8 RU1	3135
Rack 36	5594	RU2 RU3 RU6 RU8 RU1	3136
Rack 37	5594	RU2 RU3 RU6 RU8 RU1	3137
Rack 38	5594	RU2 RU3 RU6 RU8 RU1	3138
Rack 39	5594	RU2 RU3 RU6 RU8 RU1	3139
Rack 40	5594	RU2 RU3 RU6 RU8 RU1	3140
Rack 41	5594	RU2 RU3 RU6 RU8 RU1	3141
Rack 42	5594	RU2 RU3 RU6 RU8 RU1	3142



Rack 43	5594	RU1 RU2 RU3 RU6 RU8	3143
Rack 44	5594	RU1 RU2 RU3 RU6 RU8	3144
Rack 45	5594	RU1 RU2 RU3 RU6 RU8	3145
Rack 46	5594	RU1 RU2 RU3 RU6 RU8	3146
Rack 47	5594	RU1 RU2 RU3 RU6 RU8	3147
Rack 48	5594	RU1 RU2 RU3 RU6 RU8	3148
Rack 49	5594	RU1 RU2 RU3 RU6 RU8	3149
Rack 50	5594	RU1 RU2 RU3 RU6 RU8	3150
Rack 51	5594	RU1 RU2 RU3 RU6 RU8	3151
Rack 52	5594	RU1 RU2 RU3 RU6 RU8	3152
Rack 53	5594	RU1 RU2 RU3 RU6 RU8	3153
Rack 54	5594	RU1 RU2 RU3 RU6 RU8	3154
Rack 55	5594	RU1 RU2 RU3 RU6 RU8	3155
Rack 56	5594	RU1 RU2 RU3 RU6 RU8	3156
Rack 57	5594	RU1 RU2 RU3 RU6	3157

Rack 58	5594	RU8 RU1 RU2 RU3 RU6 RU8	3158
Rack 59	5594	RU1 RU2 RU3 RU6 RU8	3159
Rack 60	5594	RU1 RU2 RU3 RU6 RU8	3160
Rack 61	5594	RU1 RU2 RU3 RU6 RU8	3161
Rack 62	5594	RU1 RU2 RU3 RU6 RU8	3162
Rack 63	5594	RU1 RU2 RU3 RU6 RU8	3163
Rack 64	5594	RU1 RU2 RU3 RU6 RU8	3164
Rack location U01	5594	RU1 RU2 RU3 RU6 RU8	3201
Rack location U02	5594	RU1 RU2 RU3 RU6 RU8	3202
Rack location U03	5594	RU1 RU2 RU3 RU6 RU8	3203
Rack location U04	5594	RU1 RU2 RU3 RU6 RU8	3204
Rack location U05	5594	RU1 RU2 RU3 RU6 RU8	3205
Rack location U06	5594	RU1 RU2 RU3 RU6 RU8	3206
Rack location U07	5594	RU1 RU2 RU3 RU6 RU8	3207
Rack location U08	5594	RU1 RU2 RU3	3208

Rack location U09	5594	RU6 RU8 RU1 RU2 RU3	3209
Rack location U10	5594	RU6 RU8 RU1 RU2 RU3	3210
Rack location U11	5594	RU6 RU8 RU1 RU2 RU3	3211
Rack location U12	5594	RU6 RU8 RU1 RU2 RU3	3212
Rack location U13	5594	RU6 RU8 RU1 RU2 RU3	3213
Rack location U14	5594	RU6 RU8 RU1 RU2 RU3	3214
Rack location U15	5594	RU6 RU8 RU1 RU2 RU3	3215
Rack location U16	5594	RU6 RU8 RU1 RU2 RU3	3216
Rack location U17	5594	RU6 RU8 RU1 RU2 RU3	3217
Rack location U18	5594	RU6 RU8 RU1 RU2 RU3	3218
Rack location U19	5594	RU6 RU8 RU1 RU2 RU3	3219
Rack location U20	5594	RU6 RU8 RU1 RU2 RU3	3220
0.6m Yellow Cat5e Cable	5594	RU6 RU8 RU1 RU2 RU3	3791
1.5m Yellow Cat5e Cable	5594	RU6 RU8 RU1 RU2 RU3	3792
3m Yellow Cat5e Cable	5594	RU6 RU8 RU1 RU2	3793

10m Yellow Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3794
25m Yellow Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3795
0.6m Green Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3796
1.5m Green Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3797
3m Green Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3798
10m Green Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3799
25m Green Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3800
0.6m Blue Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3801
1.5m Blue Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3802
3m Blue Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3803
10m Blue Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3804
25m Blue Cat5e Cable	5594	RU3 RU6 RU8 RU1 RU2	3805
IBM LCD UPS Network Management Card	5594	RU3 RU6 RU8 RU1 RU2	6145
IBM LCD UPS Network Management Card	5595	TU1 TU2	6145
IBM Environmental Monitoring Probe	5594	RU1 RU2 RU3 RU6 RU8	6146

4.3m, 16A/208V, C19 to NEMA L6-20P (US) Line Cord	5594	RU2	6275
		RU3	
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	5595	TU1	6351
		TU2	
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	5595	TU1	6372
		TU2	
Line cord - 4.3m, 10A/250V, C13 to NEMA 6-15P (US)	5594	RU1	6373
4.3m, 30A/208V, EPDU to NEMA L6-30P (US) Line Cord	5594	RU6	6500
4.3m, 32A/230V, EPDU to IEC 309 P+N+G (non-US)			
Line Cord	5594	RU6	6502
4.3m, 32A/230V, Souriau UTG Female to AS/NZ 3112			
(Aus/NZ) Line Cord	5594	RU6	6505
4.3m, 32A/250V, Souriau UTG Female to KSC 8305 (S.			
Korea) Line Cord	5594	RU6	6506
Datacenter UV Program Offering	5594	RU1	7827
		RU2	
		RU3	
		RU6	
		RU8	
Datacenter UV w/ High Availability Program			
Offering	5594	RU1	7828
		RU2	
		RU3	
		RU6	
		RU8	
Customer Solution Center Services	5594	RU1	7831
		RU2	
		RU3	
		RU6	
		RU8	
e1350 Special Bid Solution Component	5594	RU1	7929
		RU2	
		RU3	
		RU6	
		RU8	
e1350 Special Bid Solution Component	5595	TU1	
		TU2	
xSeries Datacenter Scalable Solution	5594	RU1	8024
		RU2	
		RU3	
		RU6	
		RU8	
Consolidate Shipment	5594	RU1	8031
		RU2	
		RU3	
		RU6	
		RU8	
Consolidate Shipment	5595	TU1	
		TU2	
e1350 Solution Component	5594	RU1	8034
		RU2	
		RU3	
		RU6	
		RU8	
e1350 Solution Component	5595	TU1	
		TU2	
xSeries Datacenter High Availability Solution	5594	RU1	8035
		RU2	
		RU3	
		RU6	
		RU8	
TAA Compliant Order	5594	RU1	8067
		RU2	
		RU3	
		RU6	
		RU8	
TAA Compliant Order	5595	TU1	
		TU2	
General Racking Solution	5594	RU1	8072
		RU2	
		RU3	
		RU6	

No Publications Selected	5594	RU8 RU1 RU2 RU3 RU6 RU8	8086
No Publications Selected	5595	TU1 TU2	
Integrate in manufacturing	5594	RU1 RU2 RU3 RU6 RU8	8971
Ship Uninstalled (Safety)	5594	RU1 RU2 RU3 RU6 RU8	8972
System x Cluster Upgrade	5594	RU1 RU2 RU3 RU6 RU8	A103
System x Cluster Upgrade	5595	TU1 TU2	
Non-Spillable Battery Label	5594	RU1 RU2 RU3 RU6 RU8	A12R
10A/250V C13 to NEMA 6-15P 2.8m line cord	5595	TU1 TU2	A1RF
IBM RT1.5kVA 2U Rack or Tower UPS (100-125VAC)	5594	RU1	A53S
IBM RT1.5kVA 2U Rack or Tower UPS (200-240VAC)	5594	RU1	A53T
IBM RT2.2kVA 2U Rack or Tower UPS (100-125VAC)	5594	RU2	A53U
IBM RT2.2kVA 2U Rack or Tower UPS (200-240VAC)	5594	RU2	A53V
IBM RT3kVA 2U Rack or Tower UPS (100-125VAC)	5594	RU3	A53W
IBM RT3kVA 2U Rack or Tower UPS (200-240VAC)	5594	RU3	A53X
IBM 1.5kVA/2.2kVA 2U Rack or Tower Extended Battery Module	5594	RU2	A53Y
IBM 3kVA 2U Rack or Tower Extended Battery Module	5594	RU3	A53Z
IBM RT5kVA 3U Rack or Tower UPS (200-240VAC)	5594	RU6	A540
IBM RT6kVA 3U Rack or Tower UPS (200-240VAC)	5594	RU6	A541
IBM 5kVA/6kVA 3U Rack or Tower Extended Battery Module	5594	RU6	A542
IBM RT8kVA 6U Rack or Tower UPS (200-240VAC)	5594	RU8	A543
IBM RT11kVA 6U Rack or Tower UPS (200-240VAC)	5594	RU8	A544
IBM 8kVA/11kVA 3U Rack or Tower Extended Battery Module	5594	RU8	A545
IBM RT8kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)	5594	RU8	A546
IBM RT11kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)	5594	RU8	A547
IBM T1kVA Tower UPS (100-125VAC)	5595	TU1	A548
IBM T1kVA Tower UPS (200-240VAC)	5595	TU1	A549
IBM T1.5kVA Tower UPS (100-125VAC)	5595	TU2	A54A
IBM T1.5kVA Tower UPS (200-240VAC)	5595	TU2	A54C
IBM 42U 1100mm Enterprise V2 Dynamic Rack RDHX	1410	HPB	AS9Y
IBM 42U 1100mm Enterprise V2 Dynamic Rack RDHX	9363	RC4	AS9X

### 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).

[BPAttachmentforAnnouncementLetter114-100](#)

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## Publications

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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>

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### 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/>

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

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### 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 is 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 will 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***

#### **IBM 1000VA 2U UPS**

##### **Dimensions**

- Approximate height: 84.5 mm (3.3 in.)
- Approximate width: 482.6 mm (19.0 in.)
- Approximate depth: 470 mm (18.5 in.)
- Approximate weight: 18.4 kg (40.5 lb) / 1KX-19.5 kg (42.9 lb)

##### **Shipping dimensions**

- Approximate height: 270 mm (10.6 in.)
- Approximate width: 600 mm (23.6 in.)
- Approximate depth: 800 mm (31.5 in.)
- Approximate weight: 27.5 kg (60.7 lb) - 1AX; 28.6 kg (63.0 lb) - 1KX

#### **IBM 1500VA 2U UPS**

##### **Dimensions**

- Approximate height: 84.5 mm (3.3 in.)
- Approximate width: 482.6 mm (19.0 in.)
- Approximate depth: 470 mm (18.5 in.)
- Approximate weight: 18.4 kg (40.5 lb) / 1KX-19.5 kg (42.9 lb)

##### **Shipping dimensions**

- Approximate height: 270 mm (10.6 in.)
- Approximate width: 600 mm (23.6 in.)



- Approximate depth: 800 mm (31.5 in.)
- Approximate weight: 27.5 kg (60.7 lb) - 1AX; 28.6 kg (63.0 lb) - 1KX

## **IBM 2200VA 2U UPS**

### **Dimensions**

- Approximate height: 84.5 mm (3.3 in.)
- Approximate width: 482.6 mm (19.0 in.)
- Approximate depth: 580 mm (22.8 in.)
- Approximate weight 30.5 kg (67.1 lb) - 2AX 30.7 kg (67.6 lb) - 2KX

### **Shipping dimensions**

- Approximate height: 270 mm (10.6 in.)
- Approximate width: 600 mm (23.6 in.)
- Approximate depth: 1000 mm (39.4 in.)
- Approximate weight: 40.3 kg (88.7 lb) - 2AX; 40.5 kg (89.3 lb) - 2KX

## **IBM 3000VA 2U UPS**

### **Dimensions**

- Approximate height: 127 mm (5.0 in.)
- Approximate width: 482.6 mm (19.0 in.)
- Approximate depth: 528 mm (20.8 in.)
- Rack height: 3 U
- Approximate weight: 38.5 kg (84.8 lb) - 3AX; 39.2 kg (86.4 lb) - 3JX; 40.9 kg (90.1 lb) - 3KX

### **Shipping dimensions**

- Approximate height: 330 mm (13.0 in.)
- Approximate width: 600 mm (23.6 in.)
- Approximate depth: 800 mm (31.5 in.)
- Approximate weight: 48.8 kg (107.4 lb) - 3AX; 51.2 kg (112.7 lb) - 3JX; 49.5 kg (109.1 lb) - 3KX

## **IBM 5000VA 3U UPS**

### **Dimensions**

- Approximate height: 127 mm (5.0 in.)
- Approximate width: 482.6 mm (19.0 in.)
- Approximate depth: 528 mm (20.8 in.)
- Rack height: 3 U
- Approximate weight: 38.5 kg (84.8 lb) - 3AX; 40.9 kg (90.1 lb) - 3KX

### **Shipping dimensions**

- Approximate height: 330 mm (13.0 in.)
- Approximate width: 600 mm (23.6 in.)
- Approximate depth: 800 mm (31.5 in.)
- Approximate weight: 48.8 kg (107.4 lb) - 3AX; 40.9 kg (90.1 lb) - 3KX

## **IBM 6000VA 3U UPS**

## Dimensions

- Approximate height: 127 mm (5.0 in.)
- Approximate width: 482.6 mm (19.0 in.)
- Approximate depth: 528 mm (20.8 in.)
- Rack height: 3 U
- Approximate weight: 38.5 kg (84.8 lb) - 3AX; 40.9 kg (90.1 lb) - 3KX

## Shipping dimensions

- Approximate height: 330 mm (13.0 in.)
- Approximate width: 600 mm (23.6 in.)
- Approximate depth: 800 mm (31.5 in.)
- Approximate weight: 48.8 kg (107.4 lb) - 3AX; 40.9 kg (90.1 lb) - 3KX

## IBM 800VA 6U 8KX and 8PX UPS

### Dimensions

- Approximate height: 127 mm (5.0 in.)
- Approximate width: 482.6 mm (19.0 in.)
- Approximate depth: 528 mm (20.8 in.)
- Rack height: 3 U
- Approximate weight: 38.5 kg (84.8 lb) - 3AX; 40.9 kg (90.1 lb) - 3KX

### Shipping dimensions

- Approximate height: 330 mm (13.0 in.)
- Approximate width: 600 mm (23.6 in.)
- Approximate depth: 800 mm (31.5 in.)
- Approximate weight: 48.8 kg (107.4 lb) - 3AX; 40.9 kg (90.1 lb) - 3KX

## IBM 1100VA 6U 9KX and 9PX UPS

### Dimensions

- Approximate height: 127 mm (5.0 in.)
- Approximate width: 482.6 mm (19.0 in.)
- Approximate depth: 528 mm (20.8 in.)
- Rack height: 3 U
- Approximate weight: 38.5 kg (84.8 lb) - 3AX; 40.9 kg (90.1 lb) - 3KX

### Shipping dimensions

- Approximate height: 330 mm (13.0 in.)
- Approximate width: 600 mm (23.6 in.)
- Approximate depth: 800 mm (31.5 in.)
- Approximate weight: 48.8 kg (107.4 lb) - 3AX; 40.9 kg (90.1 lb) - 3KX

### Electrical specifications

- UPS 1,500 VA / 1000W 2U Rack - (single phase)
  - 55941AX 1200/1440 VA, 100V/120V AC, 60 Hz, 12 A
- Output through 4 NEMA 5-15R and 2 IEC 320 C13 receptacles
- UPS 1,500 VA / 1000W 2U Rack - (single phase)

- 55941KX 1,500 VA, 220-240V AC, 50 Hz, 7.5 A
- Output through 4 IEC 320 C13 receptacles
- UPS 2,200 VA / 1920W 2U Rack - (single phase)
  - 55942AX 1500/1920 VA, 100V/120V AC, 60 Hz, 16 A
- Output through 6 NEMA 5-20R, 2 IEC 320 C13, and 2 IEC 320 C19 320 C19 receptacles
  - 55942KX 2,200 VA, 220-240V AC, 50 Hz, 10 A
- Output through 8 IEC 320 C13 and 2 IEC 320 C19 receptacles
- UPS 3,000 VA / 2700W 3U Rack - (single phase)
  - 55943AX 2300/2880 VA, 100V/120V AC, 60 Hz, 24 A
- Output through 1 NEMA L5-20R, 2 NEMA 5-20R, 2 IEC 320 C19, and 2 IEC 320 C13 receptacles
- Output through 2 NEMA L6-20R, 2 IEC 320 C19, and 2 IEC 320 C13 receptacles
  - 55943KX 220-240V AC, 50 Hz, 16 A
- Output through 8 IEC 320 C13 and 2 IEC 320 C19 receptacles
- Audible noise at 1 meter: 55 dBa (100% load)
- Online thermal dissipation: 1AX, 1KX - 180 btu/hr; 2AX, 2KX - 345 btu/hr; 3AX, 3JX/3KX - 485 btu/hr

### **Equipment approvals and safety**

- FCC
- UL
- CSA or cUL
- CE Mark
- NOM
- GOST
- BSMI Taiwan
- CB Report
- VCCI
- C-Tick (Australia)
- Korea EK-mark
- Korea KCC
- IRAM (Argentina)

### **Standards**

None

### **Operating environment**

- Temperature: 0°C to 40.0°C (32°F 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)

**Note:** These UPS units are not supported in a maritime environment.

### **Homologation**

This product is not certified for direct connection by any means whatsoever to interfaces of public telecommunications networks. Certification may be required by law prior to making any such connection. Contact an IBM representative or reseller for any questions. In some countries, the availability of the product may depend on the availability of the relevant national regulatory certificates.

## **Hardware requirements**

The IBM 1500VA LCD UPS or 2200VA LCD UPS or 3000VA LCD UPS must be installed in an Enterprise or S2 rack or a 19-inch EIA-310-D industry-standard rack.

## **Software requirements**

The 1000VA, 1500VA, 2200VA, 3000VA, 5000VA, 6000VA, 8000VA or the 11000VA UPS can provide 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 needed 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) through 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 Software through 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 1000VA, 1500VA, 2200VA, 3000VA, 5000VA, 6000VA, 8000VA and 11000VA UPS offerings are compatible with all System x servers and other supporting devices that require ac power.

### ***Limitations***

IBM 1000VA, 1500VA, 2200VA, 3000VA, 5000VA, 6000VA, 8000VA and 11000VA UPS offerings require either 2U, 3U or 6U of rack space in one of the following rack cabinets:

- IBM 42U Enterprise Rack
- IBM 42U Enterprise V2 Rack
- IBM S2 42U Dynamic Rack
- IBM S2 42U Rack
- IBM S2 25U Rack
- IBM 11U Office Enablement Kit
- IBM 1200MM Deep Racks
- IBM PureFlex™ Rack

The UPS and connected EBMs must be installed no higher than 5 ft. (1.5 m) above the floor to allow for easy installation and servicing.

**Note:** These UPS units are not supported in a maritime environment.

### ***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***

#### ***IBM 1kVA, 1.5kVA, 2.2kVA, 3kVA, 5kVA, 6kVA, 8kVA, 11kVA UPS***

The IBM 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**

IBM 1kVA, 1.5kVA, 2.2kVA, 3kVA, 5kVA, 6kVA, 8kVA, 11kVA UPS require either 2U or 3U of rack space in one of the following rack cabinets:

- IBM 42U Enterprise Rack
- IBM 42U Enterprise V2 Rack
- IBM S2 42U Dynamic Rack
- IBM S2 25U Rack
- IBM S2 42U Rack
- IBM 11U Office Enablement Kit
- IBM 1200MM Deep Racks
- IBM PureFlex Rack

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

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

## **Cable orders**

None

## **Installability**

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

## **Packaging**

### **IBM 1kVA, 1.5kVA, 2.2kVA, 3kVA, 5kVA, 6kVA, 8kVA, 11kVA UPS**

Product	Package description	Boxes
IBM 1.0kVA 2U Tower UPS	system unit carton	1
IBM 1.5kVA 2U Rack or Tower UPS		
IBM 2.2kVA 2U Rack or Tower UPS		
IBM 3.0kVA 2U Rack or Tower UPS		
IBM 5.0kVA 3U Rack or Tower UPS		
IBM 6.0kVA 3U Rack or Tower UPS		
IBM 8.0kVA 6U Rack or Tower UPS		
IBM 11.0kVA 6U Rack or Tower UPS		

#### Contents:

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

Accessory kit, includes:

- Front Bezel
- Rack Mount Kit with Rails and Hardware
- Rack Installation Instructions
- Serial Cable (3.7 m, 12 ft.)
- USB Cable
- REPO Connector
- Documentation Kit, includes:
  - Important Notices Manual
  - Warranty Flyer

- Documentation CD
- Software CD

Each of the IBM 1kVA, 1.5kVA, 2.2kVA, 3kVA, 5kVA, 6kVA, 8kVA, 11kVA UPS offerings 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 by model.

**Note:** All measurements are approximate.

## Security, auditability, and control

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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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Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX® 5.3, AIX 6.1, and AIX 7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type "smitty esa\_main", and select "Configure Electronic Service Agent." In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

## Benefits

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**Increased uptime:** The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting

and uploading system information to IBM Support. This can translate to less wasted time monitoring the "symptoms," diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

**Security:** The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM. The customer's business applications or business data is never transmitted to IBM.

**More accurate reporting:** Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

**Customized support:** Using the IBM ID entered during activation, customers can view system and support information in the "My Systems" and "Premium Search" sections of the Electronic Support website at

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

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with the customer's IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or 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: 5594 Rack UPS
- Three years: 5595 Tower UPS
- One year: Options (battery modules)

A Lenovo® part or feature installed during the initial installation of a Lenovo machine is subject to a full warranty effective on the date of installation of the machine. A Lenovo part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. A Lenovo 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 are the same as those for the machine in which it is installed.

### **Customer setup**

Yes

### **Machine code**

No license terms apply.

### **IBM Global Financing**

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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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- System: Three years
- Optional features: One year

A Lenovo part or feature installed during the initial installation of a Lenovo machine is subject to a full warranty effective on the date of installation of the machine. A Lenovo part or feature which replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. A Lenovo 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.

### **Warranty service**

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If required, Lenovo provides repair or exchange service, depending on the type of warranty service specified below for the machine. Lenovo will attempt to resolve your problem over the telephone or electronically by access to a Lenovo Web site. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with Lenovo. You must follow the problem determination and resolution procedures that Lenovo specifies. Following problem determination, if Lenovo determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside Lenovo's normal service area. Contact your local representative or your reseller for country- and location-specific information.

The type of service is Customer Replaceable Unit (for example, keyboard, mouse, speaker, memory, or hard disk drive) Service and On-site Service.

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

Lenovo provides a replacement CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from Lenovo at any time on your request. A CRU is designated as being either a Tier 1

(mandatory) or a Tier 2 (optional) CRU. Installation of Tier 1 CRUs, as specified in this announcement, is your responsibility. If Lenovo installs a Tier 1 CRU at your request, you will be charged for the installation. You may install a Tier 2 CRU yourself or request Lenovo to install it, at no additional charge, under the type of warranty service specified below, On-site Service.

Based upon availability, a CRU will be shipped for next-business-day (NBD) delivery. Lenovo specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to Lenovo. 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 Lenovo 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:

- None

The following parts have been designated as Tier 2 CRUs:

- IBM RT1.5kVA 2U Rack or Tower UPS (100-125VAC)
- IBM RT1.5kVA 2U Rack or Tower UPS (200-240VAC)
- IBM RT2.2kVA 2U Rack or Tower UPS (100-125VAC)
- IBM RT2.2kVA 2U Rack or Tower UPS (200-240VAC)
- IBM RT3kVA 2U Rack or Tower UPS (100-125VAC)
- IBM RT3kVA 2U Rack or Tower UPS (200-240VAC)
- IBM RT5kVA 3U Rack or Tower UPS (200-240VAC)
- IBM RT6kVA 3U Rack or Tower UPS (200-240VAC)
- IBM RT8kVA 6U Rack or Tower UPS (200-240VAC)
- IBM RT11kVA 6U Rack or Tower UPS (200-240VAC)
- IBM RT8kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)
- IBM RT11kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)
- IBM 1.5kVA/2.2kVA 2U Rack or Tower Extended Battery Module
- IBM 3kVA 2U Rack or Tower Extended Battery Module
- IBM 5kVA/6kVA 3U Rack or Tower Extended Battery Module
- IBM 8kVA/11kVA 3U Rack or Tower Extended Battery Module
- IBM T1kVA Tower UPS (100-125VAC)
- IBM T1kVA Tower UPS (200-240VAC)
- IBM T1.5kVA Tower UPS (100-125VAC)
- IBM T1.5kVA Tower UPS (200-240VAC)
- Front bezel (P/N varies by MTM, 1500VA and 2200VA use the same 2U bezel, 3000VA uses a 3U bezel)
- Rail kit
- RS232 Communications Cable
- USB Cable
- NMC Card Setting Cable
- Network Management Card Kit
- UPS 1500VA Battery
- UPS 2200VA Battery
- UPS 3000VA Battery
- Power cord
- IBM 2200VA UPS 2U Extended Battery Module
- IBM 3000VA UPS 3U Extended Battery Module

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

### **Customer setup**

Yes

### **Machine code**

No

### **On-site Service and CRU**

This provides On-site Repair, 9 hours per day, Monday through Friday excluding holidays, NBD response. Lenovo or your reseller will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the Lenovo machine. The area must be clean, well lit, and suitable for the purpose. On-site Service is not available in all countries, and some countries have kilometer or mileage limitations from a Lenovo service center. In those locations where On-site Service is not available, the normal in-country service delivery is used.

All other terms and conditions are the same as those applicable to the Lenovo machine type in which the feature is installed.

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

Rack models which require two or more people for service may not be able to achieve next business day service delivery.

Calls must be received by 5:00 p.m. local time in order to qualify for NBD service.

### **International Warranty Service (IWS)**

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-947.ibm.com/support/entry/portal/docdisplay?Indocid=GCOR-3FBJK2>

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.

### **Maintenance services**

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**ServicePac®**, **ServiceSuite®**, **ServiceElect**, and **ServiceElite**

ServicePac, ServiceSuite, ServiceElect, and ServiceElite provide hardware warranty service upgrades, maintenance, and selected support services in one agreement.

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

During the warranty period, a warranty service upgrade provides an enhanced level of On-site Service for an additional charge. A warranty service upgrade must be purchased during the warranty period and is for a fixed term (duration). It is not refundable or transferable and may not be prorated. If required, IBM will provide the warranty service upgrade enhanced level of On-site Service acquired by the customer. Service levels are response-time objectives and are not guaranteed.

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts.

CRUs will be provided as part of the machine's standard warranty CRU Service except that you may install a Tier 1 CRU yourself or request IBM installation, at no additional charge, under one of the On-site Service levels specified below.

IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

### ***Maintenance service***

If required, IBM provides repair or exchange service, depending on the type of maintenance service specified below for the machine. IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed.

#### *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*

IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

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

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Maintenance services are available for ICA legacy contracts.

### ***Alternative service (warranty service upgrades)***

During the warranty period, a warranty service upgrade provides an enhanced level of On-site Service for an additional charge. A warranty service upgrade must be purchased during the warranty period and is for a fixed term (duration). It is not refundable or transferable and may not be prorated. If required, IBM will provide the warranty service upgrade enhanced level of On-site Service acquired by the customer. Service levels are response-time objectives and are not guaranteed.

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts.

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 or request IBM to install it, at no additional charge, under the type of warranty service specified below, On-site Service.

IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

### ***Maintenance service***

If required, IBM provides repair or exchange service, depending on the type of maintenance service specified below for the machine. IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed.

#### *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*

IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

### **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.

### ***Warranty service upgrades and maintenance services***

Under certain conditions, IBM Integrated Technology Services repairs selected non-IBM parts at no additional charge for machines that are covered under warranty service upgrades or maintenance services.

IBM Service provides hardware problem determination on non-IBM parts (for example, adapter cards, PCMCIA cards, disk drives, or memory) installed within IBM machines covered under warranty service upgrades or maintenance services and provides the labor to replace the failing parts at no additional charge.

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***

These products do not contain Licensed Internal Code or Licensed Machine Code.

### ***Machine Code License Acceptance Requirement***

Acceptance-By-Use Machine: No, the LIC license requires signed acceptance by the machine's end user directly with IBM, applicable to orders for a new machine, machine type conversion MES, and to machines transferred to another user.

### ***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/>

To locate the web price, search on the feature number in the Search field.

Description	Machine type	Model number	SEO number
Rack and Tower UPS			
IBM 1.5kVA 2U Rack or Tower UPS (100-125VAC)	5594	1AX	55941AX
IBM 1.5kVA 2U Rack or Tower UPS (200-240VAC)	5594	1KX	55941KX
IBM 2.2kVA 2U Rack or Tower UPS (100-125VAC)	5594	2AX	55942AX
IBM 2.2kVA 2U Rack or Tower UPS (200-240VAC)	5594	2KX	55942KX
IBM 3kVA 2U Rack or Tower UPS (100-125VAC)	5594	3AX	55943AX
IBM 3kVA 2U Rack or Tower UPS (200-240VAC)	5594	3KX	55943KX
IBM 5kVA 3U Rack or Tower UPS (200-240VAC)	5594	5KX	55945KX
IBM 6kVA 3U Rack or Tower UPS (200-240VAC)	5594	6KX	55946KX
IBM 8kVA 6U Rack or Tower UPS (200-240VAC)	5594	8KX	55948KX
IBM 8kVA 6U 3/1 Phase Rack or Tower UPS (200-240VAC)	5594	8PX	55948PX
IBM 11kVA 6U Rack or Tower UPS (200-240VAC)	5594	9KX	55949KX
IBM 11kVA 6U 3/1 Phase Rack or Tower UPS (200-240VAC)	5594	9PX	55949PX
IBM 1kVA 2U Tower UPS (100-125VAC)	5595	1AX	55951AX
IBM 1kVA 2U Tower UPS (200-240VAC)	5595	1KX	55951KX
IBM 1.5kVA 2U Tower UPS (100-125VAC)	5595	2AX	55952AX
IBM 1.5kVA 2U Tower UPS (200-240VAC)	5595	2KX	55952KX

#### Options

Description	Part number
IBM 1.5kVA/2.2kVA 2U Extended Battery Module	55942BX
IBM 3kVA UPS 2U Extended Battery Module	55943BX
IBM 5kVA/6kVA 3U Extended Battery Module	55946BX
IBM 8kVA/11kVA 3U Extended Battery Module	55949BX

The following are newly announced features on the specified models of the IBM xSeries 5594 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
UPS 1500 2U Rack and Tower Base	RU1			Yes
UPS 2200 2U Rack and Tower/EBM Base	RU2			Yes
UPS 3000 2U Rack and Tower/EBM Base	RU3			Yes
UPS 5000/6000 3U Rack and Tower/EBM Base	RU6			Yes
UPS 8000/11000 6U Rack and Tower/EBM Base	RU8			Yes
UID Asset Tag Label	RU1	0747	Initial	

	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
EMEA Long Leadtime Configurations			
	RU1	1763	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Hungary CHW plant 9SH			
	RU1	1764	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Guad CHW plant 9KQ			
	RU1	1765	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
ISTC CHW 9K2			
	RU1	1766	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
RTP CHW 9NR			
	RU1	1767	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Offload Manufacturing to Guadalajara HVEC			
	RU1	1768	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Offload Manufacturing to RTP HVEC			
	RU1	1769	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Offload Manufacturing to ISTC			
	RU1	1770	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Capacity Scheduling Service			
	RU1	1772	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Custom SLA Scheduling Service			
	RU1	1796	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Custom Asset Tagging - Standard			
	RU1	2200	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Custom Asset Tagging - Enhanced			
	RU1	2201	Initial
	RU2		Initial



	RU3		Initial
	RU6		Initial
	RU8		Initial
Request for Global Trade Number (UPC or EAN)		2207	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Custom Unit Carton Label		2220	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Custom Palletization		2221	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack Installation >1U Component		2306	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 01		3101	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 02		3102	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 03		3103	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 04		3104	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 05		3105	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 06		3106	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 07		3107	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 08		3108	
	RU1		Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial

	RU8		Initial
Rack 09	RU1	3109	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 10	RU1	3110	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 11	RU1	3111	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 12	RU1	3112	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 13	RU1	3113	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 14	RU1	3114	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 15	RU1	3115	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 16	RU1	3116	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 17	RU1	3117	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 18	RU1	3118	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 19	RU1	3119	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 20	RU1	3120	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 21			

	RU1	3121	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 22			
	RU1	3122	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 23			
	RU1	3123	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 24			
	RU1	3124	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 25			
	RU1	3125	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 26			
	RU1	3126	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 27			
	RU1	3127	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 28			
	RU1	3128	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 29			
	RU1	3129	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 30			
	RU1	3130	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 31			
	RU1	3131	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 32			
	RU1	3132	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 33			
	RU1	3133	Initial
	RU2		Initial

	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 34			
	RU1	3134	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 35			
	RU1	3135	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 36			
	RU1	3136	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 37			
	RU1	3137	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 38			
	RU1	3138	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 39			
	RU1	3139	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 40			
	RU1	3140	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 41			
	RU1	3141	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 42			
	RU1	3142	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 43			
	RU1	3143	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 44			
	RU1	3144	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 45			
	RU1	3145	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial

	RU8		Initial
Rack 46	RU1	3146	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 47	RU1	3147	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 48	RU1	3148	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 49	RU1	3149	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 50	RU1	3150	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 51	RU1	3151	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 52	RU1	3152	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 53	RU1	3153	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 54	RU1	3154	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 55	RU1	3155	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 56	RU1	3156	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 57	RU1	3157	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 58			

Rack 59	RU1	3158	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 60	RU1	3159	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 61	RU1	3160	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 62	RU1	3161	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 63	RU1	3162	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack 64	RU1	3163	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U01	RU1	3164	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U02	RU1	3201	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U03	RU1	3202	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U04	RU1	3203	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U05	RU1	3204	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U06	RU1	3205	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U06	RU1	3206	Initial
	RU2		Initial

	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U07			
	RU1	3207	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U08			
	RU1	3208	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U09			
	RU1	3209	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U10			
	RU1	3210	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U11			
	RU1	3211	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U12			
	RU1	3212	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U13			
	RU1	3213	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U14			
	RU1	3214	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U15			
	RU1	3215	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U16			
	RU1	3216	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U17			
	RU1	3217	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U18			
	RU1	3218	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial

	RU8		Initial
Rack location U19	RU1	3219	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Rack location U20	RU1	3220	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
0.6m Yellow Cat5e Cable	RU1	3791	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
1.5m Yellow Cat5e Cable	RU1	3792	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
3m Yellow Cat5e Cable	RU1	3793	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
10m Yellow Cat5e Cable	RU1	3794	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
25m Yellow Cat5e Cable	RU1	3795	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
0.6m Green Cat5e Cable	RU1	3796	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
1.5m Green Cat5e Cable	RU1	3797	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
3m Green Cat5e Cable	RU1	3798	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
10m Green Cat5e Cable	RU1	3799	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
25m Green Cat5e Cable	RU1	3800	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
0.6m Blue Cat5e Cable			



	RU1	3801	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
1.5m Blue Cat5e Cable			
	RU1	3802	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
3m Blue Cat5e Cable			
	RU1	3803	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
10m Blue Cat5e Cable			
	RU1	3804	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
25m Blue Cat5e Cable			
	RU1	3805	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
IBM LCD UPS Network Management Card			
	RU1	6145	Initial
	RU2		Initial
	RU3		Initial
IBM Environmental Monitoring Probe			
	RU1	6146	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
4.3m, 16A/208V, C19 to NEMA L6-20P (US) Line Cord			
	RU2	6275	Initial
	RU3		Initial
Line cord - 4.3m, 10A/250V, C13 to NEMA 6-15P (US)			
	RU1	6373	Initial
4.3m, 30A/208V, EPDU to NEMA L6-30P (US) Line Cord			
	RU6	6500	Initial
4.3m, 32A/230V, EPDU to IEC 309 P+N+G (non-US) Line Cord			
	RU6	6502	Initial
4.3m, 32A/230V, Souriau UTG Female to AS/NZ 3112 (Aus/NZ) Line Cord			
	RU6	6505	Initial
4.3m, 32A/250V, Souriau UTG Female to KSC 8305 (S. Korea) Line Cord			
	RU6	6506	Initial
Datacenter UV Program Offering			
	RU1	7827	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Datacenter UV w/ High Availability Program Offering			
	RU1	7828	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Customer Solution Center Services			
	RU1	7831	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
e1350 Special Bid Solution Component			

	RU1	7929	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
xSeries Datacenter Scalable Solution			
	RU1	8024	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Consolidate Shipment			
	RU1	8031	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
e1350 Solution Component			
	RU1	8034	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
xSeries Datacenter High Availability Solution			
	RU1	8035	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
TAA Compliant Order			
	RU1	8067	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
General Racking Solution			
	RU1	8072	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
No Publications Selected			
	RU1	8086	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Integrate in manufacturing			
	RU1	8971	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Ship Uninstalled (Safety)			
	RU1	8972	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
System x Cluster Upgrade			
	RU1	A103	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
Non-Spillable Battery Label			
	RU1	A12R	Initial
	RU2		Initial
	RU3		Initial
	RU6		Initial
	RU8		Initial
IBM RT1.5kVA 2U Rack or Tower UPS (100-125VAC)			
	RU1	A53S	Initial
IBM RT1.5kVA 2U Rack or Tower UPS (200-240VAC)			

	RU1	A53T	Initial
IBM RT2.2kVA 2U Rack or Tower UPS (100-125VAC)	RU2	A53U	Initial
IBM RT2.2kVA 2U Rack or Tower UPS (200-240VAC)	RU2	A53V	Initial
IBM RT3kVA 2U Rack or Tower UPS (100-125VAC)	RU3	A53W	Initial
IBM RT3kVA 2U Rack or Tower UPS (200-240VAC)	RU3	A53X	Initial
IBM 1.5kVA/2.2kVA 2U Rack or Tower Extended Battery Module	RU2	A53Y	Initial
IBM 3kVA 2U Rack or Tower Extended Battery Module	RU3	A53Z	Initial
IBM RT5kVA 3U Rack or Tower UPS (200-240VAC)	RU6	A540	Initial
IBM RT6kVA 3U Rack or Tower UPS (200-240VAC)	RU6	A541	Initial
IBM 5kVA/6kVA 3U Rack or Tower Extended Battery Module	RU6	A542	Initial
IBM RT8kVA 6U Rack or Tower UPS (200-240VAC)	RU8	A543	Initial
IBM RT11kVA 6U Rack or Tower UPS (200-240VAC)	RU8	A544	Initial
IBM 8kVA/11kVA 3U Rack or Tower Extended Battery Module	RU8	A545	Initial
IBM RT8kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)	RU8	A546	Initial
IBM RT11kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)	RU8	A547	Initial

The following are newly announced features on the specified models of the IBM xSeries 5595 machine type:

Description	Model Number	Feature Number	Initial/ MES/ Both/ Support	CSU
IBM T1000VA Tower UPS	TU1			Yes
IBM T1500VA Tower UPS	TU2			Yes
UID Asset Tag Label	TU1 TU2	0747	Initial Initial	
EMEA Long Leadtime Configurations	TU1 TU2	1763	Initial Initial	
Hungary CHW plant 9SH	TU1 TU2	1764	Initial Initial	
Guad CHW plant 9KQ	TU1 TU2	1765	Initial Initial	
ISTC CHW 9K2	TU1 TU2	1766	Initial Initial	
RTP CHW 9NR	TU1 TU2	1767	Initial Initial	
Offload Manufacturing to ISTC	TU1 TU2	1770	Initial Initial	
Capacity Scheduling Service	TU1	1772	Initial	

	TU2		Initial
Custom SLA Scheduling Service	TU1	1796	Initial
	TU2		Initial
Custom Asset Tagging - Standard	TU1	2200	Initial
	TU2		Initial
Custom Asset Tagging - Enhanced	TU1	2201	Initial
	TU2		Initial
Request for Global Trade Number (UPC or EAN)	TU1	2207	Initial
	TU2		Initial
Custom Unit Carton Label	TU1	2220	Initial
	TU2		Initial
Custom Palletization	TU1	2221	Initial
	TU2		Initial
IBM LCD UPS Network Management Card	TU1	6145	Initial
	TU2		Initial
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	TU1	6351	Initial
	TU2		Initial
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	TU1	6372	Initial
	TU2		Initial
e1350 Special Bid Solution Component	TU1	7929	Initial
	TU2		Initial
Consolidate Shipment	TU1	8031	Initial
	TU2		Initial
e1350 Solution Component	TU1	8034	Initial
	TU2		Initial
TAA Compliant Order	TU1	8067	Initial
	TU2		Initial
No Publications Selected	TU1	8086	Initial
	TU2		Initial
System x Cluster Upgrade	TU1	A103	Initial
	TU2		Initial
10A/250V C13 to NEMA 6-15P 2.8m line cord	TU1	A1RF	Initial
	TU2		Initial
IBM T1kVA Tower UPS (100-125VAC)	TU1	A548	Initial
IBM T1kVA Tower UPS (200-240VAC)	TU1	A549	Initial
IBM T1.5kVA Tower UPS (100-125VAC)	TU2	A54A	Initial
IBM T1.5kVA Tower UPS (200-240VAC)	TU2	A54C	Initial

The following is a newly announced feature on the specified model of the IBM System x 1410 machine type:

Description	Model Number	Feature Number	Initial/ MES/ Both/ Support
IBM 42U 1100mm Enterprise V2 Dynamic Rack RDHX	HPB	ASY	Initial

The following is a newly announced feature on the specified model of the IBM System x 9363 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
IBM 42U 1100mm Enterprise V2	Dynamic RC4	Rack RDHX AS9X	Initial

### The Single Entity Offerings (SEO)

Description	SEO number
IBM 1.5kVA 2U Rack or Tower UPS (100-125VAC)	55941AX
IBM 1.5kVA 2U Rack or Tower UPS (200-240VAC)	55941KX
IBM 2.2kVA 2U Rack or Tower UPS (100-125VAC)	55942AX
IBM 2.2kVA 2U Rack or Tower UPS (200-240VAC)	55942KX
IBM 3kVA 2U Rack or Tower UPS (100-125VAC)	55943AX
IBM 3kVA 2U Rack or Tower UPS (200-240VAC)	55943KX
IBM RT5.0kVA 3U Rack or Tower UPS (200-240VAC)	55945KX
IBM 6kVA 3U Rack or Tower UPS (200-240VAC)	55946KX
IBM 8kVA 6U Rack or Tower UPS (200-240VAC)	55948KX
IBM 8kVA 6U 3/1 Phase Rack or Tower UPS (200-240VAC)	55948PX
IBM 11kVA 6U Rack or Tower UPS (200-240VAC)	55949KX
IBM 11kVA 6U 3/1 Phase Rack or Tower UPS (200-240VAC)	55949PX
IBM 1kVA 2U Tower UPS (100-125VAC)	55951AX
IBM 1kVA 2U Tower UPS (200-240VAC)	55951KX
IBM 1.5kVA 2U Tower UPS (100-125VAC)	55952AX
IBM 1.5kVA 2U Tower UPS (200-240VAC)	55952KX
IBM 1.5kVA/2.2kVA 2U Extended Battery Module	55942BX
IBM 3kVA UPS 2U Extended Battery Module	55943BX
IBM 5kVA/6kVA 3U Extended Battery Module	55946BX
IBM 8kVA/11kVA 3U Extended Battery Module	55949BX

Description	Part number	Monthly rental charge
IBM 1.5kVA 2U Rack or Tower UPS (100-125VAC)	55941AX	N/A
IBM 1.5kVA 2U Rack or Tower UPS (200-240VAC)	55941KX	N/A
IBM 2.2kVA 2U Rack/Tower UPS (100-125VAC)	55942AX	N/A
IBM 2.2kVA 2U Rack/Tower UPS (200-240VAC)	55942KX	N/A
IBM 3kVA 2U Rack/Tower UPS (100-125VAC)	55943AX	N/A
IBM 3kVA 2U Rack/Tower UPS (200-240VAC)	55943KX	N/A
IBM RT5.0kVA 3U Rack/Tower UPS (200-240VAC)	55945KX	N/A
IBM 6kVA 3U Rack/Tower UPS (200-240VAC)	55946KX	N/A
IBM 8kVA 6U Rack/Tower UPS (200-240VAC)	55948KX	N/A
IBM 8kVA 6U 3/1 Phase Rack or Tower UPS (200-240VAC)	55948PX	N/A
IBM 11kVA 6U Rack/Tower UPS (200-240VAC)	55949KX	N/A
IBM 11kVA 6U 3/1 Phase Rack or Tower UPS (200-240VAC)	55949PX	N/A
IBM 1kVA 2U Tower UPS (100-125VAC)	55951AX	N/A
IBM 1kVA 2U Tower UPS	55951KX	N/A

(200-240VAC)			
IBM 1.5kVA 2U Tower UPS	55952AX	N/A	
(100-125VAC)			
IBM 1.5kVA 2U Tower UPS	55952KX	N/A	
(200-240VAC)			
IBM 1.5kVA/2.2kVA 2U Extended	55942BX	N/A	
Battery Module			
IBM 3kVA UPS 2U Extended Battery	55943BX	N/A	
Module			
IBM 5kVA/6kVA 3U Extended Battery	55946BX	N/A	
Module			
IBM 8kVA/11kVA 3U Extended	55949BX	N/A	
Battery Module			

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

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## **Corrections**

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**(Corrected on January 22, 2016)**

Revised Overview, Limitations, and Operating environment sections.