



# New IBM 0U and 1U Switched and Monitored Power Distribution Units enable easy protection and management of high-availability rack-based systems

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## At a glance

The new IBM® 0U and 1U Power Distribution Units (PDUs) are the ideal solutions when you need flexible, reliable, easy-to-deploy power distribution with branch circuit protection to minimize downtime. These rack-dense units distribute power to up to 24 outlets in a 0U configuration and 12 outlets in a 1U configuration.

## Overview

The new IBM 0U and 1U Switched and Monitored Power Distribution Units allow for quick and simple deployment, protection, and management of your high-availability IBM System x® and BladeCenter® rack environment.

New button-mount designs on 0U PDUs help simplify deployment by providing tool-less rear mounting in IBM 9360, 9361, and 9362 model rack cabinets, reducing installation time.

IBM 0U vertical rack strip PDUs share a common space-efficient, power-dense design across the line. IBM 0U/1U available solutions include twenty-four IEC-320-C13 single-phase and twelve IEC-320-C19/C13 3-phase receptacles with single-phase 30A and 32A offerings, and three-phase 30A, 32A, and 50A offerings.

The new IBM 0U and 1U PDUs can be used separately or in combination with other IBM System x and BladeCenter PDUs to provide from a few outlets up to a full rack, scaling as required or as business needs change to support even greater power densities.

IBM 0U and 1U PDUs are engineered to stringent specifications to efficiently and cost effectively deliver power to the most power-dense IBM System x and BladeCenter environments.

## Key prerequisites

None

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## Planned availability date

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January 21, 2011

September 21, 2011, for option part numbers 46M4116, 46M4134, and 46M4167.

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## Description

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The new IBM 0U and 1U Switched and Monitored Power Distribution Units (PDUs) makes it quick and simple to deploy, protect, and manage your high availability IBM System x and BladeCenter rack environment.

IBM 0U and 1U PDUs can be used separately or in combination with other IBM System x and BladeCenter PDUs to provide from a few outlets up to a full rack, scaling as required or as business needs change to support even greater power densities.

These PDUs are highly advanced relative to the competition in setup, ease of installation, density, and scalability.

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## Product positioning

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Ideal for supporting power-demanding servers such as IBM System x and BladeCenter systems, the IBM 0U and 1U Switched and Monitored PDUs offer a variety of benefits for rack-based environments, including:

- Improved power and energy efficiency
- Enhanced availability and system protection
- Ease of installation
- Modular approach to meet changing system requirements
- Cost savings

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## Product number

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Description	Option part number
IBM 0U 24 C13 Switched and Monitored 32A PDU	46M4119
IBM 0U 12 C19/12 C13 Switched and Monitored 32A 3 Phase PDU	46M4137

Description	Option part number
IBM 0U 24 C13 Switched and Monitored 30A PDU	46M4116
IBM 0U 12 C19/12 C13 Switched and Monitored 50A 3 Phase PDU	46M4134
IBM 1U 9 C19/3 C13 Switched and Monitored 30A 3 Phase PDU	46M4167

Note: The following are not related to other products in this announcement. This announcement is being used to release the options.

The following are Pseudo Options.

Description	Option part number
5U Tower to Rack Conversion Kit	59Y8133
Labels x3850 X5/x3950 X5	69Y1830
Labels x3690 X5	69Y2360

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## Publications

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Installation publications are shipped with the announced products.

The following publications are available immediately. To order, contact your IBM representative.

Title	Order number
BladeCenter Solutions	GM13-0127
System x Family Brochure	GM13-0128

### 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.

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## Technical information

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### Specified operating environment

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#### **Physical specifications**

IBM 0U 12 C19/12 C13 3 Phase PDU

- Length: 1840 mm (70.9 in)
- Width: 55 mm (2.2 in)
- Height: 108 mm (4.3 in)
- Approximate weight: 11 kg (24 lb)

IBM 0U 24 C13 Single Phase PDU

- Length: 1800 mm (72.4 in)
- Width: 44 mm (1.73 in)
- Height: 85 mm (3.3 in)
- Approximate weight: 6 kg (13 lb)

IBM 1U C19/C13 3 Phase PDU

- Length: 350 mm (13.8 in)
- Width: 447 mm (17.6 in)
- Height: 42 mm (1.7 in)
- Approximate weight: 9 kg (20 lb)

#### **Standards**

Specification	200-208 V	220-240 V
UL 60950-1 First Edition (2nd Edition by 12-2010)	X	-
CAN/CSA 60950-1 First Edition (2nd Edition by 12-2010)	X	-
IEC/EN 60950-1 First Edition (2nd Edition by 12-2010)	-	X
C-S 3-0501-070	X	X
N-B 3-0501-201	X	X

### Operating environment

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#### **Ambient temperature and relative humidity**

- Operating temperature: 10 to 55 degrees C (50 to 122 degrees F), 0U and 1U models
- Operating relative humidity: 5% to 90% (noncondensing)
- Operating elevation: 0 to 10,000 feet (0 to 3048 m)

#### **Regulatory agency approvals**

Safety:

- UL-60950/cUL
- CE (D.O.C.)
- IEC-60950
- CB Certificate and CB Test Report
- KC Korea
- FCC

- VCCI
- C-tick
- GOST
- ICES 003

### **Hardware requirements**

The new 0U 12/24 C19/C13 and 1U C19/C13 Switched and Monitored PDUs should be configured with IBM System x or BladeCenter servers.

### **Software requirements**

None

### **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**

The IBM 0U 12/24 and C19/C13 and the 1U 12 C19/C13 Switched and Monitored PDUs are designated as customer setup. Instructions are provided in the *User's Guide*.

#### **Cable orders**

None are required.

#### **Packaging**

Product	Shipment group	Number of boxes
0U 12 and 0U 24 PDUS	IBM 0U 12 C19/12 C13 Switched and Monitored 3 Phase PDU	1
	IBM 0U 24 C13 Single Phase Switched and Monitored PDU	1
1U PDU	IBM 1U C19/C13 Switched and Monitored 3 Phase PDU with 4.3 m L21-30P cord	1

#### *Shipment group*

One box

Retail only

Packaging dimensions and weight:

- 0U and 1U PDU LxWxH
  - 0U 12 PDU: 1985 mm (78.1 in) x 195 mm (7.7 in) x 210 mm (8.3 in)
  - 0U 24 PDU: 1945 mm (76.6 in) x 195 mm (7.7 in) x 210 mm (8.3 in)
  - 1U PDU: 565 mm (22.2 in) x 495 mm (19.5 in) x 200 mm (7.9 in)
- Approximate 0U and 1U PDU weight
  - 0U 12 PDU: 15 kg (33.07 lb)
  - 0U 24 PDU: 10 kg (22.04 lb)
  - 1U PDU: 14 kg (30.86 lb)

Shipment group:

- Warranty and Support Information Manual
- CD containing User's Guide

### **Supplies**

**For end users:** BM 0U 12 and 24 C19/C13 and 1U 12 C19/C13 Switched and Monitored PDUs can be purchased through dealers around the world.

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

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This product does not use any security and auditability features of the host hardware, host software, or application software.

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

### **Global Technology Services**

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Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.

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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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### **Field installable feature**

Yes

**Warranty period**

IBM 0U 12 and 24 C19/C13 Switched and Monitored PDUs: Three years

IBM 1U 12 C19/C13 Switched and Monitored C19/C13 PDU: Three years

5U Kit and 2.8m Power Cord: One year

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 that 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 are the same as those for the machine in which it is installed.

**Customer setup**

Yes

**Machine code**

No license terms apply

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**Pricing**

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For all local charges, contact your IBM representative.

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**Announcement countries**

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All European, Middle Eastern, and African countries.

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## Corrections

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**(Corrected on September 21, 2011)**

Option part numbers 46M4116, 46M4134, and 46M4167 were added with a planned availability date of September 21, 2011.