

## IBM Distributed Power Interconnect family of Power Delivery Products



The IBM DPI Universal Rack PDU (left) and the DPI Front-end PDU

With the growth in complexity of today's IT equipment, power distribution and power delivery are becoming critical issues. Designing a fault-tolerant power system that can help reduce downtime and increase server reliability is a priority. What's more, companies are finding it increasingly difficult to accommodate the higher current draw in today's servers.

In response, IBM introduces the new Distributed Power Interconnect (DPI Interconnect) family of power distribution units (PDUs). Capable of supporting solutions from a handful of systems up to full racks of 1U servers, a cluster of enterprise servers or a large array of network storage devices, these modular components provide industry-leading flexibility and scalability.

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### Highlights

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- **Customer-connectable line cords install without professional electrical help**
- **Scalable power support—change DPI Front-end PDUs from 30/32amp to 60/63amp simply by changing line cords**
- **Space-saving 1U, half-rack-width form factor optimizes outlet density**
- **Line-cord consolidation helps save infrastructure expense**
- **Easy setup—bulky line cords can be removed for quick installation into the rack**
- **Includes mounting hardware for "zero U" or EIA-space mounting**
- **Worldwide solutions—universal voltage support, worldwide certifications and IBM service and support**

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### **Smarter ideas for simple products**

DP Interconnect products are designed on the IBM Interconnect Rack Architecture, which is your assurance that the products will work right, fit right, install quickly and help save money. DPI products share many of the thoughtful ideas behind the revolutionary IBM C2T Interconnect™ cable chaining technology and Advanced Connectivity Technology (ACT) Interconnect solutions. The choice of an IBM DP Interconnect PDU will make dealing with complex IT power requirements easier than ever. Now, you can:

- *Reduce or eliminate the need for expensive upgrades to your electrical infrastructure*
- *Install power distribution solutions yourself, reducing electrical setup costs*
- *Easily scale up your power distribution system for seamless expansions, reconfigurations, moves and even different power sources.*

### **Scalable power support**

The DPI family of Front-end PDUs offers scalable power/current support. Choosing between 30amp and 60amp products is as simple as choosing the right line cord. If your needs change, so can your power distribution system—with only a single line cord change.

### **Ease of use**

IBM DPI PDUs are built using customer-attachable line cords and power connectors. This approach eliminates terminal blocks and limits the need for an electrician to perform installation.

Also, DP Interconnect products come standard with mounting brackets and hardware.

### **High-availability solutions**

DP Interconnect PDUs can be configured to provide redundant power distribution for critical IT components, helping eliminate a single point of failure and helping to increase data availability.

### **Cord consolidation and cable management**

The ability to consolidate as many as 21 equipment line cords on a single DPI Front-end PDU means you can significantly reduce cable clutter inside and outside the rack. Plus, mounting PDUs in sidewall pockets and using the included cable management brackets help to further enhance cable management.

### **Complete modular solutions**

IBM's modular approach provides the flexibility to mix and match components as needed to configure a wide range of power distribution solutions. Whether your goal is to maximize outlet count or to create power redundancy, these PDUs adapt to your needs.

### **Server-level protection**

Unlike many PDUs available today which were designed either for the desktop environment or for industrial space, DPI PDUs were developed specifically for protecting sensitive IT equipment.

### **Tested compatibility means faster installation**

Significantly speed solution setup by deploying IBM PDUs in IBM NetBAY™ racks. When you combine IBM racks and IBM power, you get simple, quick, stable and thoughtful solutions with built-in investment protection. What's more, all IBM PDUs are ServerProven® for compatibility with IBM @server xSeries™ rack-optimized and blade servers.

### **Zero-space design**

DPI products allow for flexible placement within the rack—either in the “U” space or in the side panel. With our compact, half-rack-width form factor, you can mount several PDUs in an IBM NetBAY rack's sidewall compartments. For example, you can place up to 84 outlets in a NetBAY Enterprise Rack without sacrificing a single “U” of space.

### **IBM service and support**

IBM PDUs when used in an IBM NetBAY rack come standard with award-winning onsite IBM service and support. Add a service or warranty uplift to the rack, and you gain the same extended coverage for your PDUs as well—a great way to consolidate service contracts and protect your entire investment.

## IBM DPI Rack PDUs at a glance

Model	DPI 100-127V Rack PDU	DPI Universal Rack PDU
<b>Part number(s)</b>	32P1761 with fixed NEMA L5-15 line	32P1736 - US line cords (NEMA L5-20 and L6-20) 32P1745 - Brazilian line cord (NBR 6147) 32P1747 - Argentinian line cord (IRAM 2073)
<b>Form factor</b>	Units are 1U high, half-rack width, and can be mounted alone or in combination.	
<b>Description</b>	Six-outlet, low-voltage-only (100-127V) PDU with NEMA 5-15 outlets	Seven-outlet 100-240V PDU with IEC309 C13 outlets.
<b>Capacity</b>		
Low voltage	Up to 1524W @ 127V	Up to 1905W @ 127V
High voltage	N/A	Up to 3120W @ 208V
<b>Support</b>	ServerProven support for all Netfinity™ and xSeries servers and options	
<b>Input</b>	Fixed line cord, NEMA L5-15 connector (2.5m)	IEC 309 C20 input connector along with 2.5m country-specific line cord (see above)
<b>Power source</b>	100-127Vac, 50/60Hz	100-240Vac, 50/60Hz
<b>Mounting option</b>	Hardware included for both EIA mounting and side pocket mounting; both installations are approved for preconfigured shipment in an IBM NetBAY rack	
<b>Protection</b>	15amp dual pole circuit breaker	15amp dual pole circuit breaker
<b>Dimensions</b>	41.50x222.5x114.5mm 1.63x8.76x4.51"	41.50x222.5x114.5mm 1.63x8.76x4.51"
<b>Warranty<sup>1</sup></b>	Three-year limited onsite warranty when installed in an IBM NetBAY rack	

## IBM DPI Front-end PDUs at a glance

Model	DPI 30amp/125V Front-end PDU with NEMA 5-30 line	DPI 30amp/250V Front-end PDU with NEMA 6-30 line	DPI 60amp/250V Front-end PDU with IEC 309 2P+G
<b>Part number</b>	32P1751	32P1766	32P1767
<b>Form factor</b>	Units are 1U high, half-rack width, and can be mounted alone or in combination.		
<b>Description</b>	Single-phase, low-voltage 30amp front-end PDU with three IEC 309 C19 outlets	Single-phase, high-voltage 30amp front-end PDU with three IEC 309 C19 outlets	Single-phase, high-voltage 60amp front-end PDU with three IEC 309 C19 outlets
<b>Capacity</b>			
Low voltage	Up to 3048W @ 127V	N/A	N/A
High voltage	N/A	Up to 4992W @ 208V	Up to 9360W @ 208V
<b>Support</b>	ServerProven support for all Netfinity and xSeries servers and options		
<b>Line cord</b>	NEMA L5-30 (2.5m)	NEMA L6-30 (2.5m)	IEC 309 60amp 2P+G (2.5m)
<b>Power source</b>	100-127Vac, 50/60 Hz	200-208Vac, 50/60 Hz	200-208Vac, 50/60 Hz
<b>Mounting option</b>	Hardware supports ship -loading of PDUs in the sidewall of all IBM racks; units can be mounted in the EIA space using extra rack PDU hardware. Front-end PDUs only support preconfigured shipment in side panel.		
<b>Protection</b>	Non-replaceable fuse included with each outlet circuit for protection	Non-replaceable fuse included with each outlet circuit for protection	Non-replaceable fuse included with each outlet circuit for protection
<b>Dimensions</b>	41.5x225.5x222.5mm 1.63x8.76x8.76"	41.5x225.5x222.5mm 1.63x8.76x8.76"	41.5x225.5x222.5mm 1.63x8.76x8.76"
<b>Warranty<sup>1</sup></b>	Three-year limited onsite warranty when installed in an IBM NetBAY rack		



### DPI Universal Rack PDU

This PDU provides universal-voltage support for up to seven devices. It has one power input (100-240Vac, 50-60Hz) and seven IEC 320-C13 outlets. This unit is designed to be used in one of two ways: plugged into an appropriate wall outlet or used with the innovative DPI Front-end PDU.

### DPI 100-127V Rack PDU

This PDU is built using NEMA outlets rather than the IEC outlets of the Universal Rack PDU, for use only in countries with power systems that operate at 100-127V. It is an economical, basic PDU designed to plug directly into the wall or power source and power up to as many as six devices.

### DPI Front-end PDU

DPI Front-end PDUs provide a front-end wiring box to allow connection of multiple Universal Rack PDU models to higher-current single-phase circuits. These modular front-end PDUs provide three single-phase output circuits from one single-phase input circuit. An industry-leading feature of these units is the scalability of power support. The same Front-end PDU unit can be used at 30/32amps or 60/63amps, depending on the line cord you choose. This provides an excellent way to grow your solution as needs change.

For more detailed information on the entire DP Interconnect family, consult the *Decision Maker's Guide to IBM Power Distribution* available at:

[ibm.com/pc/ww/eserver/xseries/rack.html](http://ibm.com/pc/ww/eserver/xseries/rack.html)

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