

PowerPak



**REDUNDANT
POWER
DISTRIBUTION
SYSTEMS**

Need to improve the reliability of your power distribution system?

Today's demanding business environment requires facilities that are on-line all the time. You can be "7x24 Ready" with PDI's PowerPak Series of Redundant Power Distribution Systems.

When you manage a critical facility, you need the most reliable power distribution system available; one that provides multiple power paths from normal and emergency electrical sources all the way to the point-of-use level. One that keeps your critical systems running around the clock by shielding them from the effects of power disruptions. One that allows preventative maintenance on upstream equipment, anytime, without affecting your load.

Other manufacturers only offer a simple, manual, dual-input solution for planned outages or a full-blown automatic static transfer switch system, but nothing in between. These all-or-nothing offerings leave a large gap filled with customer needs that cannot be served in a cost-effective manner.

PDI's full range of Redundant Power Distribution Systems bridges this gap, with dual-input sensing and switching schemes that can be custom configured to meet the speed and budget requirements of a wide array of applications. With our extensive offering, the power of fail-safe redundancy is available to more companies and more applications than ever before. How does PDI do it? Creative, quality engineering.

At the heart of our Redundant Power Distribution Systems is the trusted PDI PowerPak, providing isolation, voltage transformation, harmonic reduction, voltage regulation and power distribution. Combine any of our powertrain and distribution choices with any of our redundancy options, and you have a Redundant Power Distribution System that is tailor-made for your application.

PDI's PowerPak Series of Power Distribution Products have been chosen by some of the most exacting customers in the world and used in thousands of critical applications. Our PowerPak Series of Redundant Power Distribution Systems were designed for these customers and their most critical facilities. Let this proven experience work for you. Upgrade your power distribution system with redundancy from PDI.

PDI has a system for you.

The PowerPak HS System

*Automatic High Speed Switching
Within the PDU*

Fully integrated Dual-Input Transfer System that senses power source disturbances and automatically transfers to the alternate source without interruption to the load.

'Break-before-make' operation

Senses & transfers in less than half the time recommended by the Information Technology Industry Council (ITI, a.k.a. CBEMA)

Pre-tested, field tested and certified to UL standards for tens of thousands of operations

100% electrical isolation between two input sources

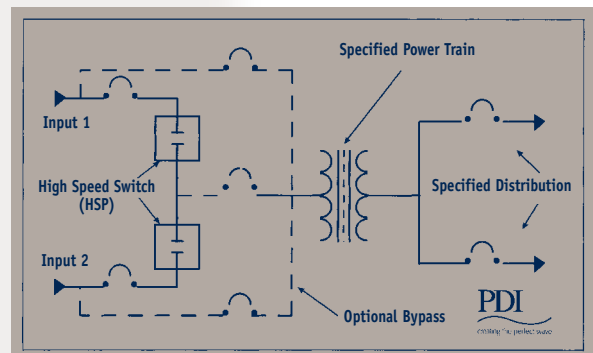
Continuous power to your loads even in the event of control power or internal logic failure

Bypass Control for manually initiated transfers in the event of internal failure

Maintains source connection should both fail: automatically supplies power to your load when power is restored

All sense & transfer components accessible from front and side and can be bypassed & isolated for safe, quick maintenance: **no rear access required** for one and two panelboard configurations

Many **existing PDUs can be upgraded** with the HS Option



PowerPak HS with Primary Switching

**“I researched redundant systems.
PDI has the best offering.”**



The PowerPak SS System

*Solid-State Switching System
in a Front Accessible Enclosure*

**Static Switching, Power Conditioning and Distribution
System for transparent dual
power source transfers.**

'Break-before-make' operation

Sense & transfer time is **less than 4 ms**

Endurance tested to over **6000 operations at 150% load**

All internal sensing & control logic is redundant for
added reliability

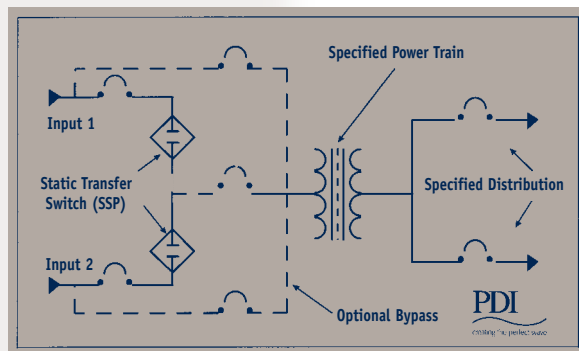
All power components **performance tested to 6X full load**

Full operator control: can manually initiate system transfers

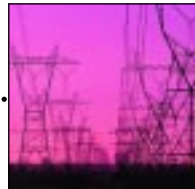
Completely front accessible for installation, maintenance and
operation: **no rear access required**

The **only** Static Transfer System to be tested
and approved by Underwriters Laboratory to
UL 1008, the true industry performance and
safety standard

The highest performance in the smallest
footprint in the industry



PowerPak SS with Primary Switching



The PowerPak MD and AD Systems

The Economical Choice for Built-in Redundancy and Greater Reliability

Dual-Input Power Distribution Systems that allow for source selection to isolate upstream equipment and facilitate system maintenance and repair.

'Break-before-make' operation for **safe source isolation**

Interlocked Inputs for system & operator safety

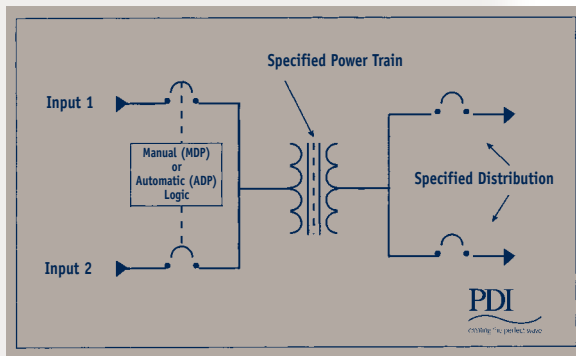
Maximizes usable floorspace: fits within PowerPak frame

MD System: manually operated

AD System: manually initiated/electrically operated

Available in 'make-before-break' operation for more critical applications

Available with Automatic Sense & Transfer Option for unattended operation



PowerPak MD or AD with Primary Switching



PowerPak Series

Redundant Power Distribution Systems

Our Redundant Systems combine dual sources and automatic switching with standard PDU power conditioning and distribution to create a totally redundant power path for critical loads.

Up to 300kVA

Primary or secondary switching (see figures, right)

Fully front and side accessible

Configurable for top or bottom customer connections

Smallest footprints in their class (see chart below)

UL and CUL listed, CSA certified

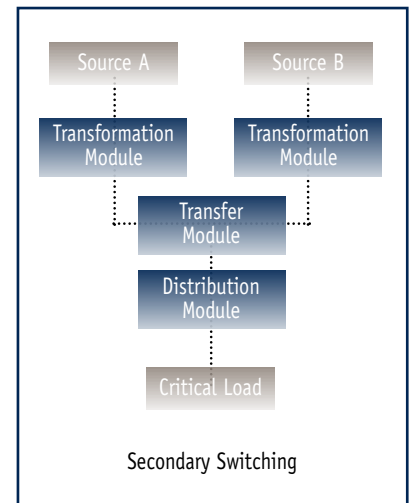
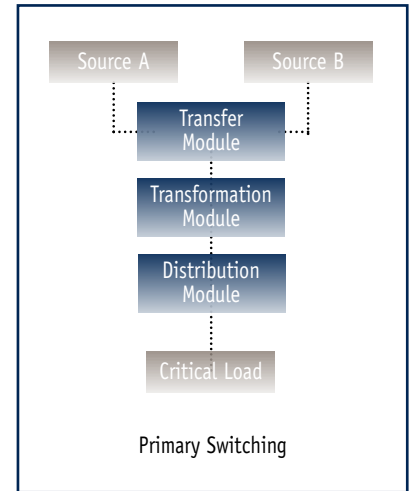
Product Data

PowerPak Series ¹	Height ²	Width ²	Depth ²
MDP and ADP	69"	48.5"	37.75"
HSP	69"	48.5"	37.75"
SSP	86"	71.25" ³	37.75"

¹ Primary switching configurations. All Systems are also available in secondary switching configurations. Please consult factory for sizing information.

² Dimensions shown are for four (4) panelboard units. Please consult factory for other distribution configurations.

³ 600 AMP to 800 Amp SSP is 92.5"



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