

WAVESTAR® PDU SERIES

ADVANCED POWER PROTECTION FOR NON-LINEAR LOADS

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PDI 



PROTECT YOUR COMPUTERS PDI's WaveStar® PDU protects your critical computer equipment from electrical noise and spikes and acts as a single point reference ground. Each PDU can be individually configured to meet your needs for isolation, voltage transformation, harmonic reduction and voltage regulation with virtually limitless distribution options. Standard TP-1 transformers make WaveStar® PDUs ultra energy efficient reducing your long term operating expenditures. Built-in system monitoring and diagnostics facilitate load balancing and warn of potential threats to your critical equipment.

Every PDI WaveStar® goes through the toughest testing in the industry. PDI's comprehensive quality assurance program, with 100% unit inspection and testing, is just one way PDI assures that each unit will perform flawlessly day after day.

INTELLIGENT WAVESTAR® MONITORING WaveStar® monitoring gives you real-time control of actual loads down to the individual breaker level. This important decision-making tool integrates PDI's BCMS and PDI's Intelligent Monitoring System so you control system-wide performance, breaker power levels, along with current and voltage data. This means improved, more timely decisions can be made based on real-time load and capacity data, all in one interactive and monitoring package.

WIN THE RACE FOR SPACE We designed our PDU to grow with your facility. "Sidecars" can be added to the standard cabinet to give you up to six 42-circuit panels or combinations of panels and sub-feed breakers. Up to 252 separate circuits can be installed in a single unit. These circuits can be monitored by one of PDI's BCMS systems as a factory installed component.

REDUNDANCY INCREASES SYSTEM RELIABILITY For utmost system reliability, choose one of our dual input options. PDI manufactures dual-input WaveStar® with a full range of sensing and switching options to meet the speed and budget requirements of a wide array of applications. Our Manual Dual and Static Switch Primary and Secondary WaveStar® PDU Systems help you create 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.

MODULAR DESIGN PDI's modular design results in higher quality due to the standardized pre-testing of all modules, allowing PDI to meet the tight project deadlines that data centers demand.

PDI SERVICE AND SUPPORT After your equipment has been installed, call on the PDI service team for 24/7 support. Our industry best sales and service team will stay with you from the design of your system through the life of your data center.

OTHER POWER DISTRIBUTION UNITS

- Rack Mount Power Distribution Units – see our separate RPP brochure for 15-150 kVA units in a server cabinet.
- PowerHub® 225-750 kVA with welded bus – see our separate PowerHub® brochure.
- Medium Voltage Power Distribution Units – PDI can build a 4160V or 12470V system for you – call us for details.

PDI
creating the perfect wave

SPECIFICATIONS

RATINGS

- kVA Ratings: 15-750 kVA
- Input: 3-phase, 3 wire plus ground
- Input Voltage @ 50 Hz: 415 or 380V
@ 60 Hz: 600, 480 or 208V
- Output: 3-phase, 4 wire plus ground
- Output Voltage @ 50 Hz: 575, 415/240, or 380/220V
@ 60 Hz: 600, 575, 480, or 208/120V

FEATURES

- Copper wound construction – better conducting and more resilient than aluminum
- Dual electrostatic shield – attenuates high frequency noise
- Oversized neutral conductor
- Common mode noise protection
- Transverse mode noise protection
- Accurate kW, power factor and THD measurement
- True RMS metering
- Operating Efficiency: 98% typical
- Listed to UL 1950, CSA Certified
- Modbus RTU communications
- BCMS available as factory installed option

ENCLOSURE

- NEMA 1 enclosure with removable front side & rear panels
- Optional NEMA 3R enclosure
- Removable front, side and rear panels
- Integrated two-point latch and vision panels
- Flush-mounted door handle with integral locks
- Advanced door catch assures positive closure

OPERATING CONDITIONS

- Operating Temperature: ambient 0°C to 40°C
- Storage Temperature: ambient -10°C to +40°C
- 50 Hz Operating Range: 47-53 Hz
- 60 Hz Operating Range: 57-63 Hz

CUSTOMIZATION

PDI offers the most comprehensive designs in the industry. Let us help you create your own for your application.

PDI_Q = POWER DISTRIBUTION INTELLIGENCE QUOTIENT
YOUR SMART MONITORING SOLUTION



smiths interconnect

WAVESTAR® PDU OPTIONS

MONITORING

- Standard Monitor: PDI WaveStar™ monitor (input and output monitoring)
- Options: Per circuit output monitoring
- Communications: Serial RS-485 Modbus; optional SNMP communications
- M4 monitor available
- Thermal: Dual transformer thermal switches

QUAD-WYE® TECHNOLOGY

Solves harmonic problems by canceling the destructive triplen and non-triplen current harmonics.

TRANSIENT SUPPRESSION NETWORK (TSN)

An integrated system engineered to meet ANSI/IEEE category C standards for transient voltages and surge currents.

LIGHTNING ARRESTOR/SURGE SUPPRESSOR

Protects the insulation of the system magnetics.

DISTRIBUTION PANELBOARDS/SUB-FEED BREAKERS

Customized distribution configurations meet the demands of any facility.

REDUNDANT POWER DISTRIBUTION SYSTEMS

- **WAVESTAR® MD**
Dual-Input Power Distribution Systems that allow for manual source selection to isolate upstream equipment and facilitate system maintenance and repair.
- **WAVESTAR® PRIMARY & SECONDARY STATIC SWITCH SYSTEM**
Static Switching, Power Conditioning and Distribution System for transparent dual power source transfers. An integrated line up that offers primary, secondary and dual-cord configurations to help optimize your system solution. The PDI static switch will sense and transfer between sources in 4 ms.

TRANSFORMERS

TP-1 transformers are standard on all models.

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