

POWERCUBE™ TRANSFORMERS ENERGY EFFICIENCY & COST SAVINGS DELIVERED

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THE INDUSTRY'S TRUSTED CHOICE As the pioneer of critical power distribution technology, PDI leads the way with proven solutions when it comes to high efficiency transformers. Backed by three modern US manufacturing facilities, a staff of over 300 dedicated people, and 30 years of industry experience, PDI has one of the largest installed bases of high efficiency transformers among any power quality provider.

LOWER OPERATING COSTS

PDI's advanced technology high efficiency transformers are designed to deliver optimal high efficiency for lower operating costs. Exceeding national efficiency standards (NEMA TP-1), PowerCube™ transformers deliver true energy savings under both linear and non-linear loads.

SYSTEM MONITORING The award winning Wavestar® monitoring system with PDI provides real time energy and power quality information at a glance. All monitors are equipped with universal communications ports for easy interface with building management systems.

MAINTAINABILITY An available hinged front port provides a quick and easy way to access all power connections, while optional infrared transparent windows allow for safe routine thermal scanning without opening the interior doors.

REDUCING THE FOOTPRINT PDI's high efficiency transformers are designed to provide years of reduced energy costs, reduced energy consumption, and therefore reduced impact on the environment. Additionally, our eco-friendly design and manufacturing process strives to maximize recycling methods for sustainability.

TESTED AND VERIFIED TO NATIONAL STANDARDS

To verify performance of actual efficiency, all PDI energy efficient transformers are tested to a nationally recognized method using third party verified equipment. All transformers are provided with a serialized test data sheet to validate performance to ensure customers get the efficiency they pay for.

BETTER BY DESIGN We invite you to look further at the technology and advantages of PDI PowerCube™ transformers. A 240°C thermal shielding between windings delivers an extra margin of safety and design and extends operating life. Welded tap connections and large flat bus termination points also eliminate "hot spots" found in most other manufacturer's transformers.

APPLICATIONS The PowerCube™ represents an optimal solution for: data centers, K-12, colleges, universities, government, healthcare, industrial, and commercial buildings where lower operating costs, energy savings, and the environment are a priority.

FEATURES

- Lower operating costs
- Lower heat generation / less cooling capacity required
- Reduced greenhouse emissions
- Meets TP-1 efficiency standards
- Qualifies for LEED building criteria
- Optional revenue-accurate metering connection port
- Integral electrical performance & commissioning capability via PDI's nationwide service team
- Customizable load level efficiency maximization
- Customer-specific power quality characteristics available
- Independently verified efficiency testing & verification
- Real time efficiency status monitoring capability
- Long term warranty available



SPECIFICATIONS

RATINGS

- kVA Ratings: 30-1000 kVA
- K Factor: specifiable K1 through K30
- 6 Compensation Taps (4 FCBN, 2 FCAN)
- 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: 415/240 or 380/220V
@ 60 Hz: 600, 480 or 208/120V
- Impedance: 2.0-4.5% average ±0.25%

FEATURES

- Copper wound construction – better conducting and more resilient than aluminum
- Dual electrostatic shield – attenuates high frequency noise
- Natural convection cooling
- Operating Efficiency: 98% typical
- Oversized neutral for non-linear loads
- UL Listed

ENCLOSURE

- Drip-proof NEMA 1
- Removable front and rear panels

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
- Relative Operating Humidity: 90% non-condensing

WARRANTY

- 12 years prorated - the industry's best

TRANSFORMER DESIGNS

- Delta Wye
- Delta Zig Zag
- Dual Zig Zag
- Quad-Wye
- Medium Voltage
- Autotransformers

PDI = POWER DISTRIBUTION INTELLIGENCE QUOTIENT
YOUR SMART MONITORING SOLUTION



POWERCUBE™ OPTIONS

TRANSIENT SUPPRESSION NETWORK (TSN)

This feature provides an integrated system designed and engineered to meet ANSI/IEEE category C standards for transient voltages and surge currents.

LIGHTNING ARRESTOR/SURGE SUPPRESSOR

The Lightning Arrestor and Surge Suppressor option protects the major insulation of the magnetics from high energy surges that are associated with lightning discharges. The suppressor circuit reduces the rate of rise of high energy transient voltages, thereby increasing the effectiveness of the Lightning Arrestor.

OPTIONAL TRANSFORMER FEATURES

- Temperature rise at 130°C, 115°C, 105°C and 80°C rise
- Temperature monitor
- Zero and thirty degree phase shift transformer available
- Thermal warning and shutdown sensors
- Harmonic mitigation
- WaveStar™ graphics display
- PowerLogic monitor
- NEMA 3R enclosure
- IR scan port
- Custom impedances are available upon request.
- 25 year prorated warranty
- Customized spare parts kits available

PDI offers over 800 different PowerCube™ configurations. Couple these with PDI's TVSS option to ensure system reliability.

kVA	NEMA 1 H x W x D (INCHES)	
30	36 x 28 x 17	Consult specific design for impedance value.
45	36 x 28 x 17	
75	42 x 35 x 21	
100	42 x 35 x 21	
125	50 x 40 x 28	
150	50 x 40 x 28	
225	63 x 49 x 30	
300	63 x 49 x 30	
500	63 x 49 x 30	
750	72 x 66 x 44	
1000	72 x 66 x 44	

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