

# CUSTOM POWERCORE™

## ISOLATION TRANSFORMER SYSTEM



### Key Benefits

- Space-saving integration
- Built-in cable management
- Fully code compliant
- More effective than 'balanced' power systems, which are prohibited in residential installations by the National Electric Code (Article 647.3)
- Total system load shared equally between the feeder legs
- Provides the lowest possible noise floor for optimal AV system performance
- Separately derived system allows for new neutral-ground bond and new AV reference ground
- AV reference ground and noise isolation right in the rack, where it is most beneficial
- Integrated power line filters reduce high frequency power line noise
- Ultra fast 100,000A surge and spike clamping protects all equipment from damage
- Dedicated branch circuits extend protection and AV reference ground to local and remote equipment locations such as bedrooms or offices, providing noise immunity for the entire system
- All circuits are on the same phase, which further reduces system noise by eliminating the additive effects of cross-phase additive noise currents

Available in 10kVA, 15kVA, and 25kVA Sizes	Available as custom integrated solution for WRK, WRK-SA, WMRK, and DRK Series Racks
Choice of 240VAC or 208VAC primary feed	Number of rackspaces available determined by required rack height
	Maximum number of 19 rackspaces available

### Solutions Added to Award-Winning Line

PowerCore™ energy efficient shielded Isolation Transformer Systems from Exact Power™ provide protected, same-phase, isolated, and conditioned 120VAC circuits to power residential AV systems.

Previously available only as a standalone product suite, PowerCore Isolation Transformer Systems can now be integrated directly into the rack of your choice!



WRK Series



WMRK Series



DRK Series

# EXACTPOWER®

## RESIDENTIAL POWER INTEGRITY SYSTEM™

Solutions for Residential AV Installations, including Home Theaters, HiFi Audio, Distributed AV & Control Systems

### PowerCore™ Rackmount Shielded Isolation Transformer

Provides newly derived AV reference ground to ensure noise free systems.

- 5kVA capacity-meets needs of many small systems
- Remote branch circuit extends protection to additional rooms
- Integrated outlet sequencing
- 100,000 Amp surge and spike protection
- Local and remote monitoring of functions provide instant notification including:
  - Voltage (input and output)
  - Ground current
  - Ground integrity
  - Load protection status



Rackmount PowerCore  
(EP-CORE-5R-240 model shown)



### PowerCore™ Isolation Transformer System

Provides a newly derived AV reference ground to ensure noise free systems.

- True single-phase output – all branch circuits on same phase
- Integrated surge protection and power filtering/conditioning
- Eliminates most common causes of hum and buzz
- Capacities from 7.5kVA to 25kVA



PowerCore  
(25kVA model shown)



### PowerCore™ with Integrated UPS

Isolation + UPS + Web Control + Surge Protection + Conditioning

- UPS backed up branch circuits
- Web-enabled outlet control and monitoring
- System wide surge and spike protection
- Same phase isolation



PowerCore  
with Integrated UPS



### StrikeShield™ Surge Protection Devices

Strikeshield SPDs install in parallel with the service entry. When the incoming voltage exceeds the safe limit, the StrikeShield unit reacts in less than a billionth of a second to divert the potentially damaging currents. Depending on the model, the unit's surge capacity can be as high as 200,000A.

Robust design provides a long life of protection over repeated transient events. UL 1449 3rd Edition Listed.



### Middle Atlantic's IsoCenter™ Rackmount Isolation Transformer System

Protects connected equipment from voltage spikes, and performs an automatic shutdown if hazardous over and under input voltage is detected. Available with or without surge and spike protection.

- Helps prevent ground loops and provides lowest possible noise floor
- Hardwired outputs extend system benefits to remote locations
- Low loss and very high efficiency design minimizes magnetic leakage, acoustical noise, and idle power draw
- Advanced toroidal transformer is greater than 98% efficient, with idle power draw of only 9W



ISOCTR-5R-240-2



For more info, please visit [www.middleatlantic.com/power/IsoCenter.htm](http://www.middleatlantic.com/power/IsoCenter.htm)

Exact Power™ products are only available through authorized installing dealers.

Middle Atlantic Products • 300 Fairfield Road • Fairfield NJ 07004  
Customer Service: 800-266-7225 • [middleatlantic.com](http://middleatlantic.com)

Exact Power, PowerCore, and GroundSense are trademarks of Middle Atlantic Products

A Group brand | Legrand

