

DG MATRIX
Clean Secure Reliable Power

THE DG MATRIX

POWER ROUTER for BUILDING ELECTRIFICATION

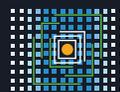
One Solution, Endless Possibilities



The DG Matrix Power Router for building electrification is designed to accelerate electrification with ultimate flexibility and unmatched performance. An all-in-one solution for integrating building power with distributed energy and EV charging, the Power Router introduces a new level of versatility. The single-device solution enables faster, easier, and more cost-effective deployments for a wide range of microgrid applications, from 200-kW to multi-MW systems.

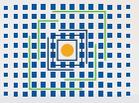
- **Industry-leading Total Cost of Ownership**
- **Single-unit Integration of Distributed Energy**
- **Simplified Design, Installation, and Commissioning**
- **Modular Scalability from 200-kW to Multi-MW**
- **Efficiency Up to 98%**
- **Up to 20-X Smaller Form Factor**
- **High-reliability Design**
- **AI-driven Diagnostics and Reporting**

Experience the future of electrification with DG Matrix.



200-kW / 400-kW Power Router

Specifications			
Mechanical Specifications	Units	200-kW System	400-kW System
Dimensions (L x W x H)	in / mm	40 x 40 x 120 / 1,016 x 1,016 x 3,048	
4 Port Version (Upgradeable to 6 Ports)*			
*Standard Configuration: 2 Universal Ports, 2 DC Ports			
Weight (estimated)	lbs / kg	3,858 / 1,750	4,299 / 1,950
6 Port Version**			
**Standard Configuration: 2 Universal Ports, 4 DC Ports			
Weight (estimated)	lbs / kg	4,409 / 2,000	4,850 / 2,200
Electrical Specifications (Max.)	Units	200-kW System	400-kW System
DC Port			
DC Voltage Range	V_{DC}	150 - 920	
DC Current	A_{DC}	350 A at 400 V_{DC} and 250 A at 800 V_{DC}	700 A at 400 V_{DC} and 500 A at 800 V_{DC}
Universal Port			
DC Voltage Range	V_{DC}	150 - 920	
DC Current	A_{DC}	350 A at 400 V_{DC} and 250 A at 800 V_{DC}	700 A at 400 V_{DC} and 500 A at 800 V_{DC}
AC Voltage Range (3-Phase)	V_{AC}	400 - 480	
AC Current	A	270	540
Power Factor		>0.99	
Frequency	Hz	50 / 60	
Current THD	%	<5	
Efficiency	%	96-98%	
General Specifications	Units		
Operating Temperature Range	°F / °C	-40 to 131 / -40 to 55	
Relative Humidity	%	5 to 95 (including condensing)	
Noise Level	dBA	<65	
Cooling Method		Liquid Cooled (sealed)	
Enclosure (ingress protection)		IP65/NEMA 3R, IK10	
User Interface		Alphanumeric LCD Display (standard) LCD / OLED Touch Screen (optional) E-Stop Push Button	



The DG Matrix Difference

Flexible, Efficient, Reliable



Single-unit Integration of Distributed Energy

- Programmable ports to integrate multiple AC and DC energy sources simultaneously
- Simplification of up to 10+ systems into one unit
- Elimination of external inverters, rectifiers, transformers, and more



Industry-leading Total Cost of Ownership

- Up to 98% efficiency
- Up to 50% lower installation costs
- Up to 70% lower utility bills



Fastest and Easiest Deployment

- Single, standardized solution for global deployments
- Cloud-based commissioning in less than 2 hours



Ultra-reliable by Design

- AI-driven diagnostics and real-time monitoring to maximize uptime
- Modular design with low mean time to repair
- Sophisticated reliability testing and reporting approach



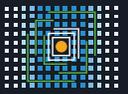
Seamless Grid-services Integration

- Integrated energy management software
- Vehicle-2-grid (V2G) compatibility
- Virtual power plant (VPP) and demand response capabilities



Ultra-compact Form Factor

- Up to 10-X reduction in footprint and volume
- Easy deployment in space-constrained areas
- Reduced logistics costs and risks



Legacy Limitations vs. DG Matrix Innovations

Legacy System:

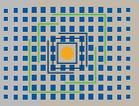
- Many disparate components
- Larger footprint
- Longer, costlier deployment



DG Matrix System:

- Single-unit solution
- Smaller footprint
- Quick and cost-effective deployments





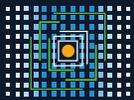
Deploy Faster, Easier, and More Cost-Effectively

Conventional microgrid solutions require the integration of more than a dozen systems, resulting in high costs, extended project timelines, and challenging installations. Because each microgrid is designed from scratch for every site, today's microgrids are not scalable.

DG Matrix simplifies this complex project by offering a single-device solution with an all-in-one system. Instead of combining 10+ systems, a single Power Router unit can power fleets using clean, renewable energy. With its ultra-compact form factor, units can be deployed faster without specialized equipment. Cloud-based commissioning reduces setup time from days or weeks to hours or minutes.



If you want to electrify **faster and easier**, DG Matrix is the right partner to accelerate your **electrification** journey.



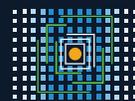
Lower Energy Costs and Increase Flexibility

With conventional microgrid infrastructure, long permitting cycles are the norm, with many customers waiting for as long as 3-5 years to get enough power to the site. These delays mean longer time to revenue, lost value, and increased project costs.

The DG Matrix Power Router offers a quicker, more efficient solution by integrating building power and distributed energy seamlessly. A single unit can combine multiple energy sources, AC and DC, with building power and EV charging, bypassing lengthy grid permitting processes, reducing energy costs, and lowering emissions. With programmable ports, the system scales as energy needs evolve, allowing for the addition or removal of sources or loads without infrastructure overhaul.

Unlock unmatched flexibility and unparalleled performance with the DG Matrix Power Router.





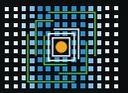
Lower Costs and Reduce Utility Constraints with Advanced Grid Services

Legacy energy infrastructure solutions have significant unused capacity and static interfaces with the grid. Lacking smart energy management and grid interactivity capabilities, site owners face higher energy costs and miss opportunities for additional revenue.

With advanced grid services powered by proprietary Energy Management Software, microgrid operators can unlock new revenue streams and lower energy costs while providing value-added support to grid infrastructure.

Capabilities such as vehicle-to-grid (V2G), demand response, and virtual power plant (VPP) enable the DG Matrix Power Router to act as a dynamic link between the grid and the building. When utility prices are high, the Power Router can automatically reduce energy loads or source power from on-site generation and storage, selling it back to the grid at a premium. Additionally, the Power Router can control energy consumption from the utility to minimize usage during peak hours. As a single hub for all energy management, the Power Router continuously optimizes power flow to maximize performance and reduce energy costs.





Why Choose **DG Matrix**?



Only single-unit solution for integrating building power, distributed energy, and more

Best total cost of ownership

Unmatched flexibility, efficiency, and scalability

Seasoned team with 500+ years of systems engineering experience

Proven operational excellence and a robust network of global partners

Foundation of reliability and customer support

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