

About Merge4™: What We Do

Solid-state power distribution for the AI era

Power that senses, learns, and adapts — built for today's needs and tomorrow's ambitions.

Pure solid state for speed. Physical AI for intelligence.

Merge4 provides solid-state power distribution that is faster, safer and more intelligent than anything that has come before it. With microsecond switching and no arcing, the Merge4 solution delivers intelligent power that continuously senses, learns, and adapts, modernizing operations in every part of the power sector — **starting with data centers**.

Merge4 DC Solid-State PM50

The building block of intelligent distribution



Up to 7 PM50
modules per PDU

Merge4 DC Solid-State PDU

Power racks built for density and speed



Repeatable rows
of PDUs scale to
server load

Merge4 DC Intelligent Power Row

One end-to-end DC solution, from power input to server rack



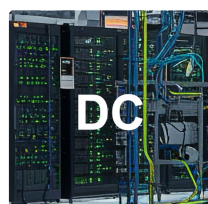
Merge4's Solution: Key Features



Pure solid-state: faster, safer, more efficient and resilient than mechanical



Integrated physical AI energy monitoring and control platform



End-to-end DC power train built to ± 400 VDC / 800 VDC standards



Modular and scalable building block architecture

What We Deliver: For Data Centers



Speed to power



Smaller footprint



Built-in uptime



Built-in intelligence



Real-time visibility



Unlock usable capacity



Future-proof flexibility



Unlimited scalability



Safety by design

For product orders and datasheets:

www.merge4energy.com | info@merge4energy.com

About Merge4™: Our DC Products

Solid-state power infrastructure for the AI era

Power that senses, learns, and adapts — for today's needs and tomorrow's ambitions.

Merge4's Scalable Solid-State DC Product Platform

Merge4 delivers modular, solid-state DC power distribution designed on a building block architecture that scales from a single rack to gigawatt-scale campuses. Engineered for today's data centers and tomorrow's emerging ± 400 / 800 VDC standards, Merge4 brings single-conduit direct current power across the entire power train, from power in to server rack.

Merge4™ DC Solid-State PM50

The building block of intelligent power distribution.

The Merge4™ DC Solid-State PM50 delivers high-resolution, per-channel, real-time monitoring, sensing conditions and informing operating decisions locally, on the fly, by circuit. Pure solid-state switching replaces fixed mechanical hardware with fully instrumented, programmable control of rack-level power, switching 10,000x faster, enables monitoring every circuit at 100kHz with no extra hardware, and delivers critical operational intelligence through physical AI. **Request the datasheet for full specs.**



Merge4 DC Solid-State PM50 (front view)

Merge4™ DC Solid-State Power Distribution Unit (PDU)

Power racks built for density, speed, and scale.

The Merge4™ DC Solid-State PDU is a pure solid-state, $\pm 400/800$ VDC power distribution unit built for data center power infrastructure. Each modular Merge4 PDU holds up to seven hot-swappable Merge4 PM50 modules, providing a total of 14 independently controlled outputs that deliver up to 350 kW of fast-switching, high-resolution DC power in a single compact cabinet. Scale your system to multiple gigawatts by adding rows of PDUs — all operating as one intelligent, connected platform. **Request the datasheet for full specs.**



Merge4 DC Solid-State PDU (front view)

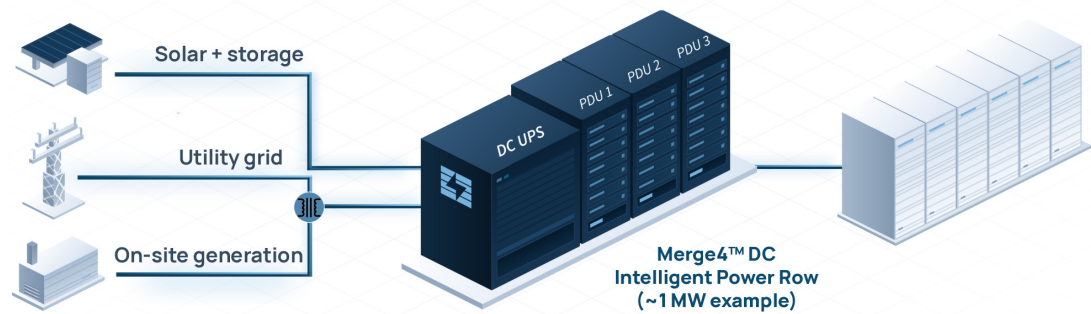
Merge4™ DC Intelligent Power Row

From power source to server loads: one end-to-end DC solution.

The Merge4™ DC Intelligent Power Row delivers end-to-end direct current from your power source to server racks in one complete solution. Today, going DC means sourcing components piecemeal and engineering several AC-DC conversions from the grid, generator, or solar and battery, Merge4 delivers a single integrated platform that eliminates multiple conversion stages, packs more capacity into a compact footprint, brings high-resolution monitoring to every channel, and cuts cooling load through higher operating efficiencies enabled by Merge4's pure solid-state substrate. It arrives ready to build: one-line diagrams and commissioning support included.

Built from modular rows of Merge4 PDUs, the Power Row scales from 500 kW to the gigawatt scale, with configurations for new builds and existing infrastructure alike — so you can make the switch whenever you're ready, wherever you are today. **Get in touch to learn more.**

Merge4 DC Intelligent Power Row (distribution system diagram)



From any power source...

...to your DC server racks

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Product Sheet

Merge4™ DC Intelligent Power Row

Solid-state DC power that scales as far as your campus does — and still runs as one intelligent system.

Power Distribution, Made Intelligent

Today's data center power distribution equipment has no "brain," no awareness, and no ability to learn. Its biggest operating inefficiencies show it was built for a world before AI-scale server racks: stranded circuit capacity, conversion losses, and a footprint that grows every time power density climbs.

The Merge4™ DC Intelligent Power Row is a complete, turnkey DC power train, from your power source to your server racks, built on Merge4's physical-AI platform. One power row scales modularly from 1 MW, 5 MW, 10 MW — to gigawatt scale. Repeat as many rows as your campus needs, so capacity arrives in increments that run as one connected system: sensing, learning, and sharing what it learns across every node.

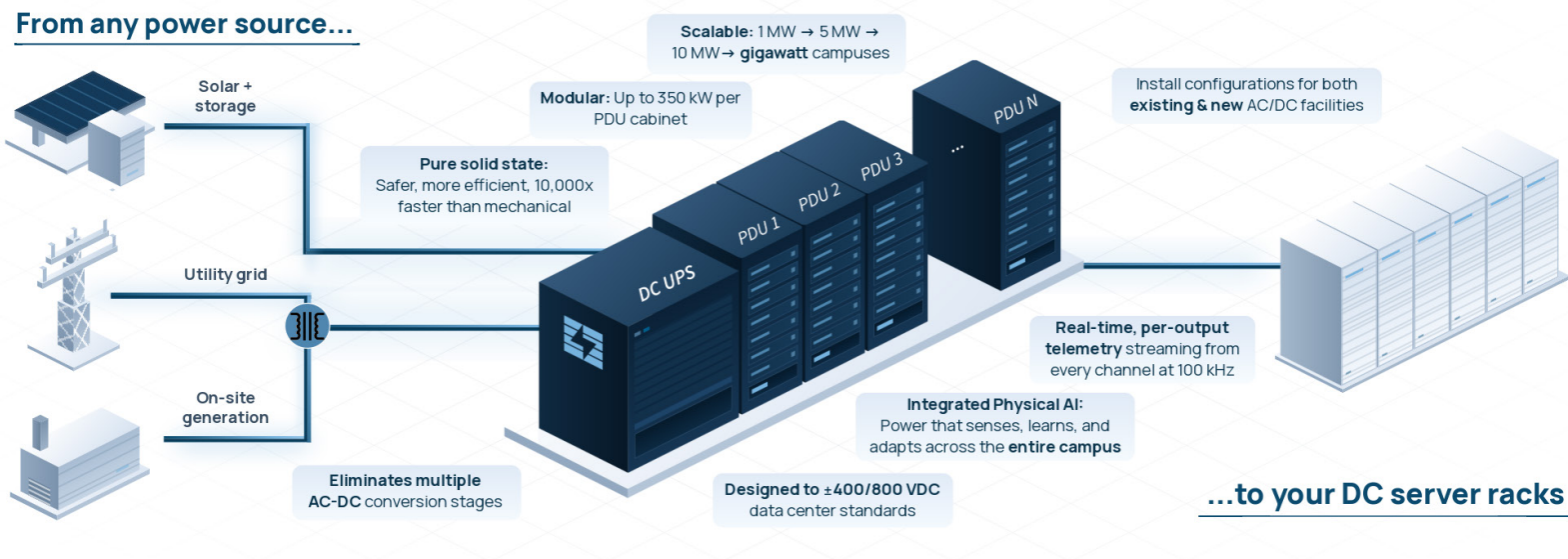
Key Features

- **Scalable:** 1 MW, 5 MW, 10 MW+
- Unlimited number of power rows per campus, functioning as one system — even at GW scale
- ± 400 VDC / 800 VDC
- SiC solid-state switching with series air-gap galvanic isolation
- Programmable current limiting + supplemental fault interruption
- Fully metered outputs (V, I, P, energy, ripple, temp) at 100 kHz
- On-module anomaly detection + advisory
- 20-30% circuit capacity unlock

Intelligent Power Distribution System

Merge4™ DC Intelligent Power Row

DC UPS + DC PDUs



Three ways to deploy:

1 Expansion Row
AT EXISTING FACILITIES

2 Upgrade
AT EXISTING FACILITIES

3 Greenfield
AT NEW FACILITIES

Contact us to talk about your power needs.

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