Clean Power VFD for Data Center Cooling

Improve energy efficiency and reliability.
Reduce the risk of unplanned downtime.

Did you know?

Cooling failures are a leading cause of unplanned outages. High THDi can damage sensitive electronics, overload transformers and cause generator failures.

40%
of data center energy goes to cooling[1]

Higher efficiency with a regenerative Active Front End (AFE)

The regenerative Active Front End (AFE) improves power factor. During braking, energy goes back to the grid for other equipment instead of being lost as heat.

70%
of data center outages cost $100K or more; 25% exceed $1M[2]

Helps prevent costly unplanned downtime

Low voltage and current distortion keeps distribution equipment from overheating, so it reaches its design life. Sine-wave output on all three phases reduces electrical stress on motors and bearings.

35% - 40% THDi
what standard six-pulse VFDs produce without harmonic mitigation

THDi below 3%

The Clean Power VFD minimizes electrical noise and stress on transformers, circuit breakers and sensitive electronics, preventing overheating and premature failure.

[1] NREL (2025), Reducing Data Center Peak Cooling Demand and Energy Costs with Underground Thermal Energy Storage. [2] Uptime Institute (2023), Annual Outage Analysis 2023

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