



SIEMENS

Ingenuity for life

Incredible Versatility. Greater Availability. Extraordinary Power.

Introducing the New SINAMICS PERFECT HARMONY GH150 Air-Cooled Drive

Siemens cell-based drive technology has set the standard for unparalleled reliability, efficiency and versatility. Until now, only water-cooled drives have been able to supply the high power demanded by today's applications. As the world leader in drive technology, Siemens is excited to announce the newest member of the SINAMICS PERFECT HARMONY portfolio – the new SINAMICS PERFECT HARMONY GH150 air-cooled drive.

With available power ratings up to 45,000 HP, the SINAMICS PERFECT HARMONY GH150 air-cooled drive is the largest, single-channel, air-cooled VFD in the world. This drive offers multiple heat management options for additional levels of flexibility and reliability.

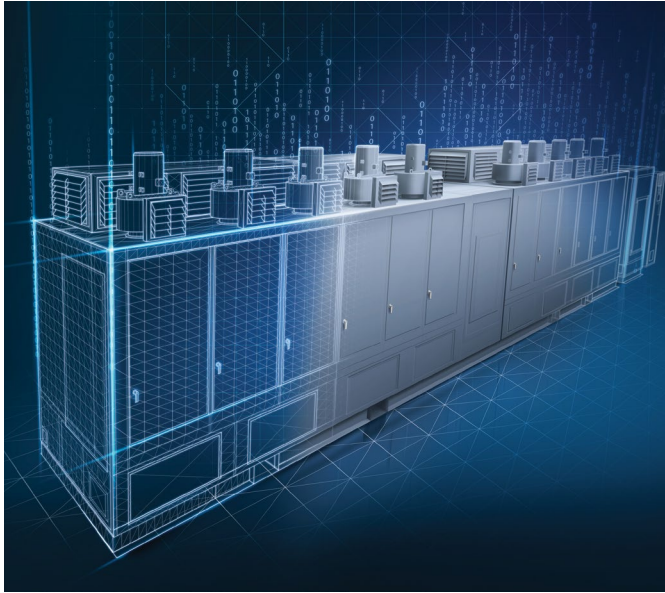
The cell-based design allows the drive to be scaled precisely for a wide range of voltage and output power and integrates a unique multi-cell M2C topology that our customers have come to expect with our SINAMICS PERFECT HARMONY GH150 drives. This topology produces unprecedented low harmonic stress making a separate output filter unnecessary. The new air-cooled design also eliminates customer concerns regarding internal water-cooling of power electronics and transformers, maintains water quality and provides cooling options in applications where water supply is not available.

Continuing the tradition of offering our customers an unparalleled range of features and advantages the SINAMICS PERFECT HARMONY GH150 air-cooled

drive features a robust design with fewer connections, IP54 protection (with the addition of any heat exchanger) and a separate transformer for an adjustable footprint to fit within your existing plant space.

Ultimate Versatility

- **Cooling flexibility:** ducting, direct air-cooling, air-to-air or indirect water-cooling with integral air-to-water heat exchanger options
- **Broad ambient conditions:** easy high temperature derating and no glycol limits for cold climates
- **Remote transformer:** dry-type or oil filled transformer options
- **Separate control cabinet installation**



SINAMICS PERFECT HARMONY GH150 Air-Cooled Drive

Output Power	Max 45,000 HP
Cell Current	900, 1100, 1300 and 1500 Amp
Output Voltage	Up to 13.8 kV
Transformer Configuration	Separate Oil-filled or dry type
Transformer Input Voltage	Up to 69 kV
Cooling Method	Air-cooled
Heat Exchanger Configuration	Integral or separate air-to-air integral air-to-water heat
Number of pulses	24 pulse
Access	Top and bottom entry, front accessible
Compliance	UL, CSA, CE, EAC

An Optimized Approach to Reduce the Total Cost of Ownership

The SINAMICS PERFECT HARMONY GH150 has been designed to improve your process availability and help control the rising costs of operations. This drives' total cost of ownership is reduced in the following ways:

- **Reduce downtime** – Increase availability with cell bypass and redundancy
- **Extensive monitoring** – High resolution for real time trending combined with advanced diagnostics to decrease your process loss time
- **Simplified cooling configuration** – Few components to maintain in a single-loop cooling design
- **Reduced blower maintenance** – With a life of 100,000+ hours, this blower is the best in the business
- **Reduced filter maintenance** – With the IP54 design, there are no filters or ionizer tanks to replace
- **Lower HVAC requirements** – 95 percent of heat losses rejected outside or into the water

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Order No.: LAFL-02600-0419

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Printed in the USA

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