



Up to 35%
reduction
in size

usa.siemens.com/perfectharmony

Maximum reliability. Minimal size.

SINAMICS PERFECT HARMONY GH180 VFD—now up to 35% smaller

Bigger isn't always better

Today's increasingly demanding applications require drives to be squeezed into ever-smaller sites. Whether you're mining on a mountainside or deepwater drilling, space is a constant concern. And at \$350 to \$400 a square foot, most manufacturers can't afford to waste a single inch of real estate—nor a single minute of production time.

To support critical applications in out-of-the-way places, Siemens redesigned its SINAMICS PERFECT HARMONY GH180 variable frequency drives (VFDs) to be 35% more compact. The new streamlined design offers the same proven reliability and performance as before, but within a smaller footprint that makes it even more versatile and cost-efficient. Even unmanned sites can benefit from this latest innovation, thanks to smaller NEMA enclosures that can withstand prolonged exposure to the elements.

High value, low complexity

To shrink the size of its SINAMICS PERFECT HARMONY GH180 drives, Siemens eliminated all but the essentials. The result is a simplified system that's composed solely of a transformer cabinet, cell cabinet and cooling cabinet. There's less programming needed, and fewer components with fewer connections means maintenance time is minimized too.

By reducing the number of threaded fittings on water-cooled VFDs and replacing long hoses with stainless steel pipe, reliability is improved. Every aspect of the drive is optimized to fit small spaces while remaining compatible with—and delivering superior reliability to—virtually every application.

Maximum flexibility

Drive types:

- Air-cooled VFD
- Water-cooled VFD

Cooling options:

- External ducting
- Air-to-air heat exchanger
- Air-to-water heat exchanger

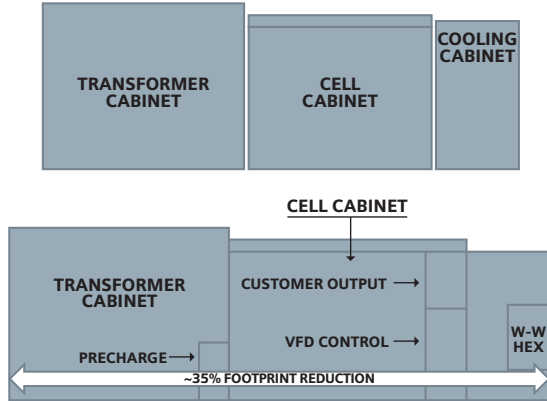
Standalone enclosures:

- NEMA 3R
- NEMA 4
- NEMA 4X

New water-cooled VFDs
offer a 7- to 8-foot
reduction in length.

Smaller size means smaller costs

In addition to saving valuable square footage, the new compact SINAMICS PERFECT HARMONY GH180 VFDs also help reduce your total cost of ownership (TCO). The size of the drive determines both the size of its enclosure and the power required to keep it cool. With a smaller VFD, you spend less on all three.



In many cases, Siemens also provides manufacturers with an Electrical Equipment House (E-House), a plug-and-play power supply solution with a fully integrated VFD. Reducing the size of the VFD automatically reduces the size of the E-House as well.

No drive is more trusted

The SINAMICS PERFECT HARMONY GH180 VFD is in its 20th year of innovation. With each advancement, it continues to evolve in ways that bring increased reliability to critical processes.

From kiln lines and vertical ball mills to mud pumps and extruders, the vast majority of applications can be paired or retrofit with a SINAMICS PERFECT HARMONY GH180 VFD to optimize process improvement. It's the No. 1 selling drive in the world—with more than 10,000 drives sold—because it's the most trusted.

For more information about SINAMICS PERFECT HARMONY drives, please visit usa.siemens.com/perfectharmony

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Same technology. Smaller size.

	GH180 Air-Cooled	GH180 Water-Cooled
Original Footprint	172–208"	396–451" L
New Footprint	150"	309–386" L
Drive Ambient	–	5 to 50° C
Output Voltage Rating	5.6kV	–
Output Current Rating	315-375A	–
HP Rating	1500–4000HP	–
Inlet Water	–	0 to 47° C
Glycol	–	Up to 60%
Advanced Cooling System	–	Optional
External W-W HEX	–	Optional
External W-A HEX	–	Single-loop configuration
Single Pump	–	–
Redundant Pump	–	✓
Integral W-W HEX	–	–
Redundant W-W HEX	–	Optional
Redundant Blowers	Optional	–
ProToPS™	Optional	Optional
Closed-Loop Vector Control	Optional	Optional
Variable Torque Applications: Fans, Pumps, Compressors	✓	✓
Constant Torque Applications: Pumps and Compressors, Extruders and Pelletizers	✓	✓
Parallel Drives (Master-Slave Configuration)	✓	✓
High Starting Torque	✓	✓
High-Speed Applications	✓	✓
Applications that Require Braking	✓	✓
Test Stand	–	✓
High Availability/ Critical Application Requirements	–	✓
High Starting Torque Using Closed-Loop Vector Control	✓	✓
High Ambient Environment > 40° C	✓	✓