



SINAMICS G150 High Power

The cost-effective and user-friendly converter solution from 1750 up to 2700 kW



With SINAMICS G150 High Power you can depend on the well-proven SINAMICS G150 cabinet units and extended range of power ratings from 1750 up to 2700 kW.

Just like the AC/AC converters up to 1500 kW, the High Power versions are specifically tailored to single-motor drives without energy recovery – and are suitable for pump, fan, compressor, extruder, mixer, rubber kneader and crusher applications, for example.

The ready-to connect SINAMICS G150 High Power units stand for the highest degree of reliability and efficiency, quiet operation and a compact design – in all of the available degrees of protection from IP20 up to IP54. In addition to low costs, these drive systems are convincing due to their simplicity: simple commissioning and operator control using the AOP30 user-friendly operator panel or the PC-based Starter tool, simple service thanks to the modular design and simple to order.

All that is required is an order number, and all of the standard options can be simply configured. SINAMICS G150 High Power cabinet units can be simply connected to two-winding transformers. To reduce the low-frequency line harmonics, 12-pulse operation using a three-winding transformer is additionally possible as standard. And last but not least, the rugged and straightforward design of the units makes them extremely reliable and service-friendly.

SINAMICS G150

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Advantages at a glance

- Cost-effective solution – from planning through to service
- Rugged and reliable
- Extremely quiet and compact converter using state-of-the-art IGBT power semiconductors and an innovative cooling concept
- Can be simply integrated into automation solutions using PROFIBUS, PROFINET, CAN bus or analog and digital interfaces
- The drive system requires up to 70% less energy through variable-speed operation
- Can be flexibly adapted to the process
- Higher plant availability through individual modules and power components that can be quickly replaced
- Simple commissioning, parameterization and operator control – menu-prompted at the user-friendly AOP30 operator panel with graphic LCD and plain text or the Starter PC-based tool
- 100% line voltage at the motor without any secondary effects
- Integrated safety functions

Options that can be ordered (selection)

Adapt the SINAMICS G150 High Power units to your specific requirements – with a comprehensive range of components and options:

- Radio interference filter
- Line reactors
- Braking unit
- Output reactors
- Emergency Off functions
- Connection for external auxiliaries
- Thermistor evaluation
- Effective motor protection using a thermal motor model in the converter
- Communication interfaces
- Mechanical options: degree of protection can be increased up to IP54, additional shock hazard protection when the cabinet is open
- dv/dt filter plus VPL or dv/dt filter compact plus VPL to limit the voltage gradients
- Chemical industry version
- Marine version

SINAMICS G150 High Power: Range of types

Select from five unit types in the 690 V voltage class:		
Power in kW	Output current I_L in A	Dimensions in mm (W x D x H)
1750	1720	3600 x 2000 x 600
1950	1940	3600 x 2000 x 600
2150	2150	3600 x 2000 x 600
2400	2390	3600 x 2000 x 600
2700	2685	4400 x 2000 x 600

The complete series of SINAMICS G150 at a glance	
SINAMICS G150 power and voltage ranges	
380 – 480 V	110 – 900 kW
500 – 600 V	110 – 1000 kW
660 – 690 V	75 – 2700 kW

Siemens AG
Industry Sector
Drive Technologies
Postfach 3180
91050 ERLANGEN
GERMANY

www.siemens.com/sinamics-g150

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