

## SINAMICS GM150

### Technical Data

[siemens.com/sinamics-gm150](http://siemens.com/sinamics-gm150)



#### Drive Features

<b>Output power</b>	1 – 13 MVA (IGBT) 10 – 24 MVA (IGCT)
<b>Output voltage</b>	IGBT Air 3 AC 2.3 – 4.16 kV IGBT Water 3 AC 2.3 – 4.16 kV IGCT Water 3 AC 3.3 kV (Tandem configuration Water 2 x 3.3 kV)
<b>Cooling</b>	Air-cooled; water-cooled
<b>Topology</b>	Voltage Source Inverter (VSI)
<b>Drive quadrants</b>	2 quadrants
<b>Rules and standards</b>	IEC, CE, EAC, CSA (on request)
<b>Motor type</b>	Asynchronous motors Separately excited or PEM synchronous motors
<b>Arc fault tested</b>	Yes
<b>Supply</b>	Separate converter transformer (e.g. dry or oil-type)
<b>Open/closed-loop control</b>	Vector control with or without speed encoder
<b>Efficiency of converter</b>	98.5% (IGBT) 99.1% (IGCT)

Input & Output Data	
Input configuration	12-, 24- or 36-pulse diode rectifier
Input voltage	2 x 1.2 kV – 2 x 2.2 kV (IGBT) ± 10% 2 x 1.7 kV (IGCT) ± 10%
Input power factor	0.96
Input frequency	50 / 60 Hz ± 3%
Output frequency	0 – 250 Hz

Environmental Features	
Altitude	Up to 1000 m; up to 4000 m with derating
Ambient air temperature	+5 – 40 °C; up to 45 °C with derating
Noise	86 dB(A) air-cooled 73 dB(A) – 76 dB(A) water-cooled
Degree of protection	Air-cooled: IP22 / IP42 Water-cooled: IP43 / IP54