G500 — Heavy-Duty Vector Drive

High-performance AC drive from 0.75 kW to 800 kW, with ratings 220 / 380 V.



G500 heavy-duty vector drive · 0.75–800 kW

Power range	**0.75–800 kW**
Voltage	**220 / 380 V**
Enclosure	**IP20 / Floor Cabinet · Wall Mount**
Certification	**CE LVD/EMC · ISO 9001**

At a glance

- Comprehensive power range: 0.75 kW up to 800 kW in single and cabinet units
- Two supply classes: 220 V single-phase and 380 V three-phase models, catalogue-rated to 800 kW
- 150% rated torque for 60 s on the G rating, for crushers and conveyors
- Optional DC-to-AC solar pumping package with PV combiner and GPRS telemetry

Electrical envelope

Parameter	Listed value
Rated power	0.75–800 kW
Nominal voltage	220 V / 380 V
Power phase	Three-phase output (single/three-phase input)
Control modes	Sensorless Vector Control (SVC), V/F, Closed-loop Vector (VC)
Overload capacity	150% for 60 s (G rating); 120% for 60 s (P rating)
Output frequency	0.00–600.00 Hz (customizable up to 3000 Hz)

Parameter	Listed value
Carrier frequency	0.5–16.0 kHz, automatic adjustment by temperature
Speed accuracy	±0.5% (SVC), ±0.02% (VC)
Torque response	< 20 ms (SVC), < 5 ms (VC)
Protection grade	IP20, cabinet builds to order
Cooling method	Forced air cooling with intelligent thermal fan control
Warranty	12 months full replacement / factory warranty
MOQ	1 piece (Custom OEM from 100 pieces)
Order code	G500 – T – 0.7 – G – B
Voltage grade	S = 1-ϕ 220 V · 2T = 3-ϕ 220 V · 4T = 3-ϕ 380 V · other grades quoted against the nameplate voltage
Duty type	G = heavy duty · P = light duty on the same frame
Brake unit	Suffix B = integrated braking unit · no suffix = none
Typical applications	Industrial automation · Pump control · Fan control · Conveying systems · Textile machinery · Paper and printing · Mining and metallurgy · Electric vehicle · Food and beverage processing

Frames and packages

Model	Rating	Dimensions	Packing
G500-S0.75G	0.75 kW (1-ϕ 220 V)	166 × 83 × 131 mm	190 × 130 × 170 mm
G500-4T5.5G / 7.5P	5.5 / 7.5 kW (380 V)	245 × 120 × 173 mm	290 × 185 × 240 mm
G500-4T15G / 18.5P	15 / 18.5 kW (380 V)	320 × 203 × 205 mm	390 × 290 × 290 mm
G500-4T45G / 55P	45 / 55 kW (380 V)	440 × 256 × 230 mm	520 × 350 × 310 mm
G500-4T110G / 132P	110 / 132 kW (380 V)	550 × 445 × 360 mm	Export wooden crate
G500-4T315G / 355P	315 / 355 kW (380 V)	900 × 610 × 603 mm	Floor cabinet build
G500-4T800G	800 kW (380 V)	Cabinet modular assembly	Engineered cabinet unit

How to read this sheet. Ratings, currents and dimensions are reproduced from the manufacturer's own selection sheet and are indicative. The binding specification is the one stated on the quotation and on the test sheet shipped with the unit. Model codes and frame variants beyond the table are quoted to order; where a duty point sits between two frames, send the load profile and the frame is confirmed in writing before the order.

Quotation and samples
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