

Affordable and Efficient Single/Three-Phase Conversion Solution



Extensive
applications



Single/three-phase
conversion



Economy and
durability



Book-like
narrow structure

Naming Rules:

GS20 – S2/T3 – 004G – A

Product Series:
GS20 series

Input Voltage :
S2

Output Voltage :
T3

Suffix Type:
A: Standard

G: Heavy duty

Power Level:
004: 4kW
011: 11kW
022: 22kW

Technical Specifications:

Input	
Input voltage	S2: Single-phase 200V~240V($\pm 10\%$), 50Hz/60Hz, voltage imbalance rate $<3\%$, frequency fluctuation $\pm 5\%$, distortion rate with reference to IEC61800-2
Output	
Output voltage	0V~ 380V, error $<5\%$
Overload capacity	T3, G: 150% of rated current for 90s, 180% of rated current for 10s, and 200% of rated current for 3s
Functions	
General functions	Protection against overvoltage, undervoltage, phase loss, overcurrent, overload, stall, short circuit, drive overheat, communication failure, and auto-tuning failure
DI	5×digital input, 1 can be optional for high-speed pulse train input(X5)
DO	1×digital output, 1×relay output
AI	2×analog input, 0V~10V or 0mA~20mA
AO	1×analog output, 0V~10V, 0mA~20mA or 4~20mA, or pulse train output
RS485 communication	Standard with 485 communication interface with Modbus protocol(RTU)
Environment	
Installation	<1000 meters, derate 1% for every 100m rise when above 1000m No condensation, icing, rain, snow, hail, etc., with solar radiation $<700\text{W/m}^2$ and air pressure 70kPa~106kPa
Temperature, humidity	$-10^{\circ}\text{C}\sim+50^{\circ}\text{C}$, derate above 40°C , 60°C max. (no-load), 5%RH~95%RH(no condensation)
Vibration	$5.9\text{m/s}^2(0.6\text{G})$ at 9Hz~200Hz
Storage temperature	$-30^{\circ}\text{C}\sim+60^{\circ}\text{C}$
Installation	Wall-mounting
Protection	IP20
Pollution class	C2
Cooling method	Forced air-cooling

Product Specifications:

Model	Rated Power (kW)	Input Current (A)	Capacity (kVA)	Rated Output Current (A)
GS20-S2/T3-004G-A	4	44.0	10.1	10
GS20-S2/T3-5R5G-A	5.5	57.2	13.2	13
GS20-S2/T3-7R5G-A	7.5	65.6	15.1	17
GS20-S2/T3-011G-A	11	96.4	22.2	25
GS20-S2/T3-015G-A	15	118.0	27.1	32
GS20-S2/T3-018G-A	18.5	140.1	32.2	38
GS20-S2/T3-022G-A	22	165.9	38.2	45