

Suzhou Veichi Electric Co., Ltd

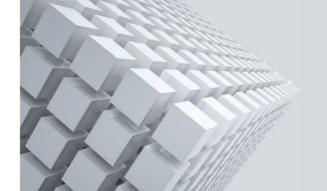
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"Version:2022 V1.1

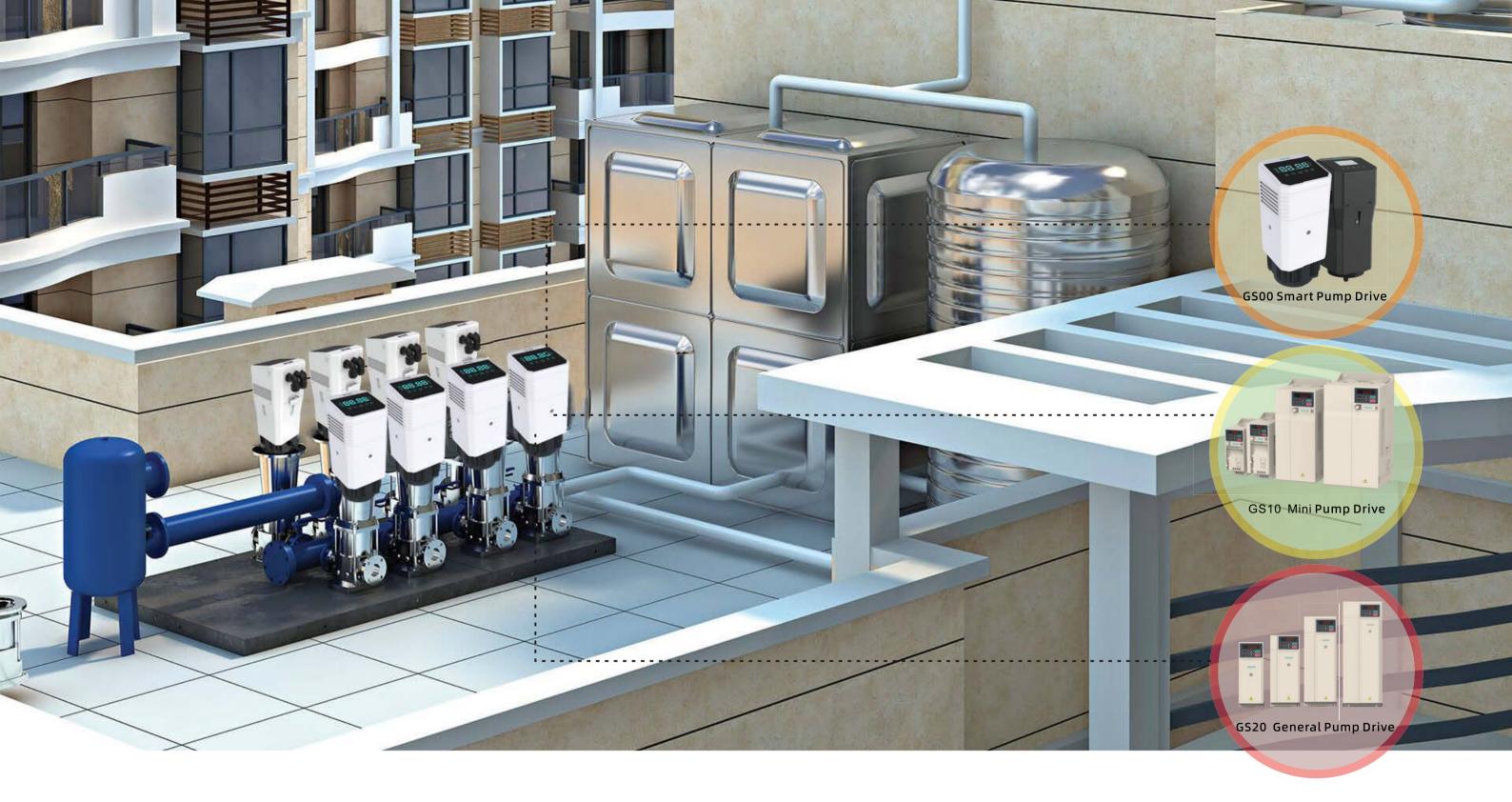
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VEICHI

Pump Drive Catalog





Water Supply System

GS00 Smart Pump Drive



Ingenious design integration into one

GS00 Water pump integrated machine

Motor-drive integrated structure, convenient installation and maintenance

The controller wraps the surface of the motor to truly achieve an integrated design. Only four screws are required for installation; the motor and the fan also dissipate heat for the motor and the drive, reducing the fan failure rate.



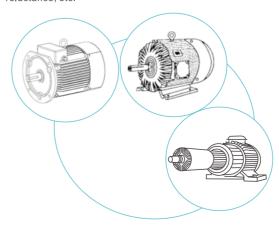
Motor protection function

Multiple inverter basic protection functions; Water pump exclusive protection function (water shortage protection, high and low pressure protection, leakage protection, anti-freeze embroidery protection, sensor disconnection protection)



Perfectly drive a variety of pump motors

Perfectly drive a variety of water pump motors such as asynchronous, permanent magnet synchronous, synchronous reluctance, etc.



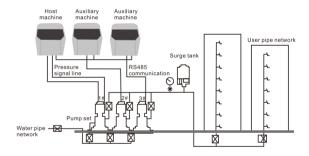
Multiple key selection

Mechanical key, touch screen key



Multiple pump control

- The pressure of the pipe network is detected by the host and sent to the auxiliary machine. When the pressure is not enough, the auxiliary machine starts and runs according to the set frequency, and the main machine performs constant pressure PID adjustment.
- The main and auxiliary machines alternately run in sequence at regular intervals to realize the uniform use of the water pump and extend the life of the water pump.



Wide range of applications

Used in many occasions such as civil water supply, agricultural irrigation, water conservancy and water affairs, HVAC water treatment, etc.



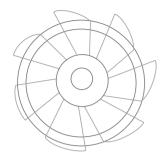




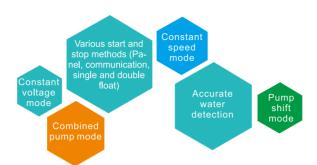


Efficient speed regulating fan

High-efficiency fan dissipates the motor and drive at the same time, with large air volume and low noise.



Multiple water supply functions



GS00 water pump integrated machine naming rules

GS 00 - T3 - 004G - 55 B W

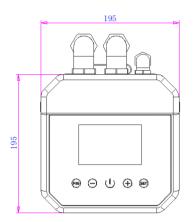
- 1 2 3 4 5 6 7

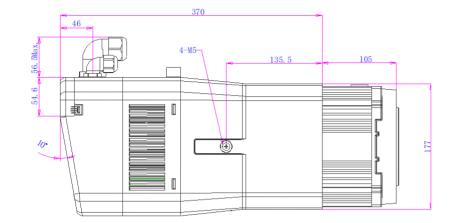
GS: Water pump integrated machine code	5 Protection level 55:IP55 65:IP65
② 00: Customized water pump integrated machine	6 Key type B: Mechanical key T: Touch key
3 Voltage LevelS2: Single phase 220VT2: Three-phase 220VT3: Three-phase 380V	 Cooling method W: Air-cooled N: Natural cooling L: Water cooling
Suitable for water pump power level 1R5G:1.5kW 004G:4.0kW 2R2G:2.2kW 5R5G:5.5kW	

GS00 Technical Specification

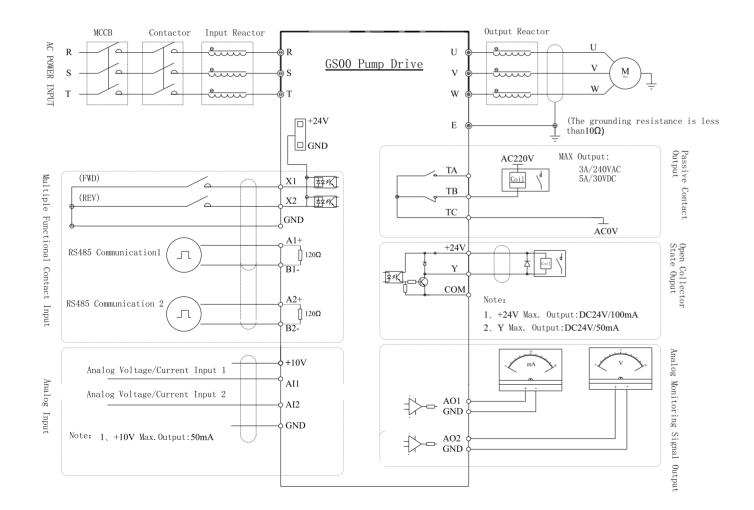
It	em	Specification						
	Voltage,	T/S2: Single/Three phase 220VAC 50/60Hz						
	frequency	T3: Three-phase 380VAC 50/60Hz						
Power input	Allow fluctuations	Voltage imbalance rate: <3%; Frequency: ±5% The distortion rate meets the requirements of IEC61800-2						
	Power rating	T/S2 : 0.75kW~2.2kW T3 : 0.75kW~11kW; 15kW or above under development						
	Output frequency range	0Hz~600Hz						
Output	Overload capability	T3 model: 150% rated current for 1 minute, 180% rated current for 10 seconds, 200% rated current for 0.5 second S2 model: 150% rated current 60 seconds, 180% rated current 10 seconds, 200% rated current 0.5 seconds						
Main control	Motor control mode	No PG V/F control, no PG vector control						
perform-ance	Carrier frequency	2.0kHz~16.0kHz						
	Standard function	PID control, speed tracking and power-down restart, skip frequency, frequency upper and lower limit control, program operation, multi-step speed, RS485, analog output, frequency pulse output						
Basic	Pump function	Constant pressure control, smart pump control, multiple pump control, intelligent IOT						
product function	Input terminals	2 digital input,2 analog input						
	Output terminals	1 relay output, 1 collector output, 2 AO output can be selected as 0~10V or 4~20mA or 4~20mA output						
	Communication	2 loop RS485 communication						
Protective funct	ion	Basic protections: overvoltage, undervoltage, current limiting, overcurrent, overload, electronic thermal relay, overheating, overvoltage stall, data protection, fast protection, input and output phase loss protection Pump special protection: water shortage, high/low pressure, water leakage, anti-freeze, sensor disconnection						
	LCD display	English language display, system operation diagram						
	Touching button	Parameters modification, command set						
	Status monitoring	System operation status display such as pump pressure ,speed						
Keyboard display	Information query	Operation period, historical fault information						
	Parameters lock	Lock parameters for avoiding misoperation						
	User password	After password setting, it will take effect in 1 minute						
	Temperature humidity	-10 ~ +50°C, derating can be used above 40 °C, the maximum temperature is 60 °C (no-load operation) 5% to 95% RH (no condensation)						
Curroundings	Storage temperature	-30°C ~ +60°C						
Surroundings	Installation method	Mounted on the motor vertically						
	Protection level	IP55/IP65						
	Cooling method	Forced air cooling						

GS00 Dimension (Unit: mm)





GS00 Wiring



GS10 Pump Drive

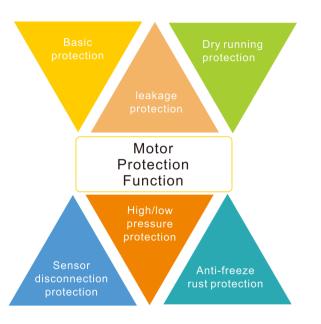


Mini& Economic

GS10 Product Features

Motor protection function

Multiple inverter basic protection functions; Water pump exclusive protection function (water shortage protection, high and low pressure protection, leakage protection, anti-freeze embroidery protection, sensor disconnection protection)

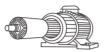


Perfectly drive a variety of pump motors

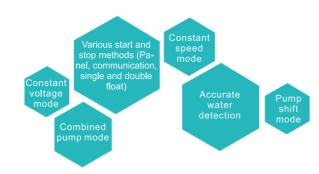
Perfectly drive a variety of water pump motors such as asynchronous, permanent magnet synchronous, synchronous reluctance, etc.





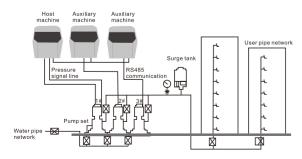


Multiple water supply functions



Multiple pump control

- ◆ The pressure of the pipe network is detected by the host and sent to the auxiliary machine. When the pressure is not enough, the auxiliary machine starts and runs according to the set frequency, and the main machine performs constant pressure PID adjustment.
- ♦ The main and auxiliary machines alternately run in sequence at regular intervals to realize the uniform use of the water pump and extend the life of the water pump.



Network Port Extension Interface

The network model supports RS485 (standard), which could be directly extended through the network port. Customers only need to make a network cable connection, convenient and beautiful.



Installation Methods

Support penetration installation (wall installation, embedded installation); Adapt to various installation environments



Side by side installation, no need to reserve clearance



Rail mounting, plug in then use it

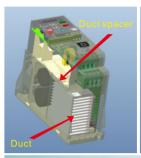


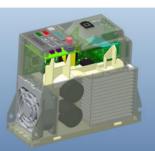
Side mounting supported when vertical space is insufficient

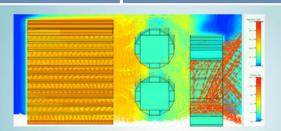
Protective Design

High protection: completely independent air duct, scientific layout inside the machine, help the heat dissipation of high-power devices and the dust-proof of the sensing device.

High temperature resistance : scientific air duct design , which can quickly dissipate heat, low temperature rise of the machine, and no need of derating at an ambient temperature of 50 $\,^\circ\mathrm{C}$.







GS10 Product Model

GS10-T 3-1R5 G-A











(4) Motor power(kW)

R75:0.75kW

1R5: 1.5kW 2R2:2.2kW

004: 4kW

2 Phase

T: 3-phase

S: single-phase

Type

G: Heavy load

3 Voltage

2: 220V

3: 380V

6 Remark

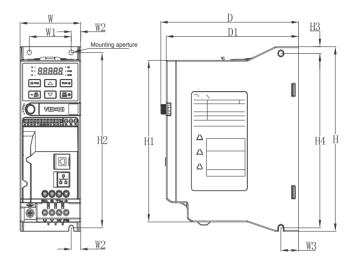
A: VEICHI logo

GS10 Technical Specification

It	em	Specification
	Voltage, Frequency	T/S2: Single/Three phase 220VAC 50/60Hz T3: Three-phase 380VAC 50/60Hz
Power input	Power rating	T/S2:0.75kW~2.2kW T3:0.75kW~22kW;
	Allow fluctuations	Voltage imbalance rate: <3%; Frequency: ±5% The distortion rate meets the requirements of IEC61800-2
	Output frequency range	0Hz~600Hz
Output	Overload capability	T3 model: 150% rated current for 1 minute, 180% rated current for 5 seconds, 200% rated current for 0.5 second T/S2 model: 150% rated current 20 seconds, 180% rated current 0.5 seconds
Main control	Motor control mode	No PG V/F control, no PG vector control
perform-ance	Carrier frequency	1.0kHz~16.0kHz
	Standard function	PID control, speed tracking and power-down restart, skip frequency, frequency upper and lower limit control, program operation, multi-step speed, RS485, analog output, frequency pulse output
D : 1 :	Pump function	Constant pressure control, smart pump control, multiple pump control, intelligent IOT
Basic product function	Input terminals	4 digital input, 1 analog input
	Output terminals	1 relay output, 1 collector output, 1 AO output can be selected as 0~10V or 4~20mA or 4~20mA output
	Communication	1 loop RS485 communication
Protective functi	on	Basic protection:overvoltage, undervoltage, current limiting, overcurrent, overload, electronic thermal relay, overheating, overvoltage stall, data protection, fast protection, input and output phase loss protection Pump special protection: water shortage, high/low pressure, water leakage, anti-freeze, sensor disconnection
	Installation place	The altitude is less than 1000 meters, and the derating is more than 1000 meters. The derating is 1% for every 100 meters. No condensation, icing, rain, snow, sputum, etc., solar radiation is less than 700W/m2, air pressure 70~106kPa
	Temperature humidity	-10 ~ +50°C, derating can be used above 40 °C, the maximum temperature is 60 °C (no-load operation) 5% to 95% RH (no condensation)
Surroundings	Vibration	At 9 to 200 Hz, 5.9 m/s2 (0.6 g)
	Storage temperature	-30°C ~ +60°C
	Installation method	Wall-mounted, closet
	Protection level	IP20
	Cooling method	Forced air cooling

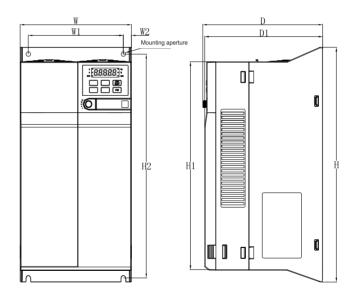
GS10 Product Dimension

0.4kW-5.5kW Installation Size Chart



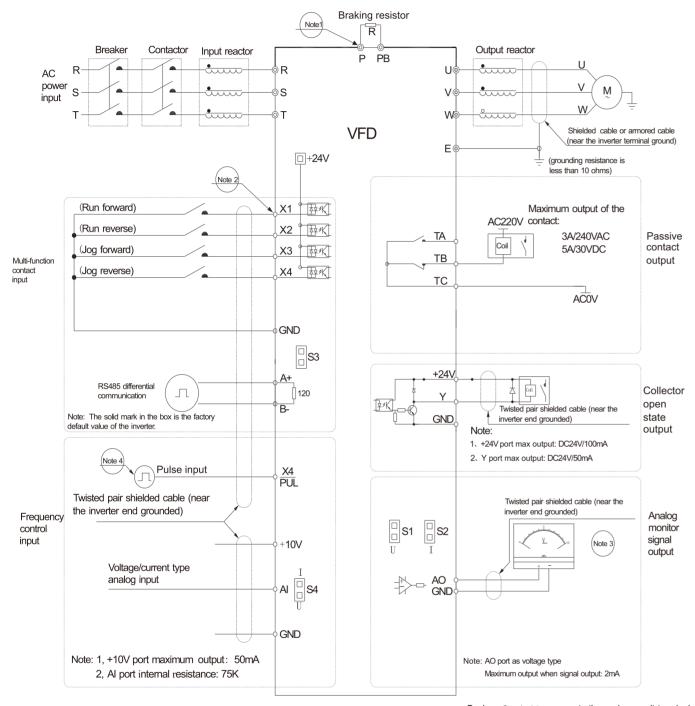
		Dime	nsior	ı(mm])	Mounting dimensions (mm)						Mountir			
Inverter model	W	н	Н1	D	D1	W1	W2	H2	W3	Н3	H4	aperture			
GS10-T/S2-R04G-A															
GS10-T/S2-R75G-A	65	177	155	148	142	45	10	168	19	6.5	167	3-M			
GS10-T/S2-1R5G-A															
GS10-T/S2-2R2G-A	75	202	180	163	157	55	10	193	19	6.5	192	3-M ²			
GS10-T3-R75G-A															
GS10-T3-1R5G-A	65	177	155	148	142	45	10	0 168	19	6.5	167	3-M4			
GS10-T3-2R2G-A															
GS10-T3-004G-A	75	202	100	162	157	55	10	193	19	6.5	192	3-M4			
GS10-T3-5R5G-A	75	202	100	163	137	55	10	193	19	0.5	192	3-1012			

7.5kW-22kW Installation Size Chart



Inverter model		Dim	ensio	n(mr	1)	Mounting dimensions (mm)						Mounting
inverter model	W	н	Н1	D	D1	W1	W2	H2	W3	Н3	H4	aperture
GS10-T3-7R5G-A	120	220	286	161	150	105	10 E	202				M5
GS10-T3-011G-A	130	320	200	101	130	105	12.5	302			_	IVIO
GS10-T3-015G-A												
GS10-T3-018G-A	170	342.5	303.5	183	180	145	12.5	326.5	-	-	-	M5
GS10-T3-022G-A												

GS10 Wiring



Scale: Symbol @ represents the main curcuit terminal Symbol o represents control curcuit terminal



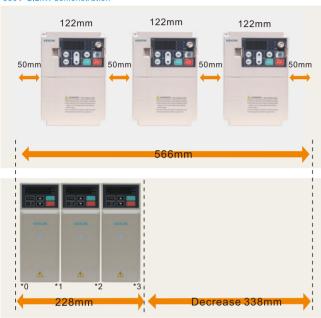
Powerful Functions, Rich Expansion

GS20 Product Features

New Appearance, Narrow Body Structure

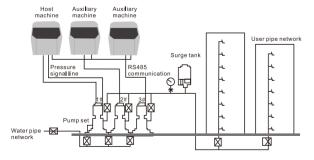
- Book narrow body structure, maximum space saving 60%.
- New keyboard design, simple appearance and easy operation
- European terminal blocks, convenient and efficient wiring .

380V 2.2kW demonstration



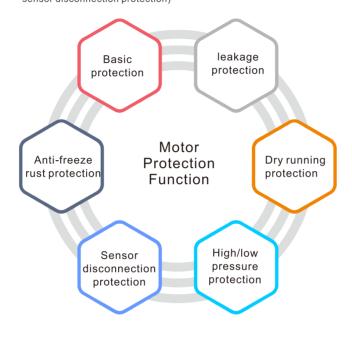
Multiple pump control

- The pressure of the pipe network is detected by the host and sent to the auxiliary machine. When the pressure is not enough, the auxiliary machine starts and runs according to the set frequency, and the main machine performs constant pressure PID adjustment.
- ◆ The main and auxiliary machines alternately run in sequence at regular intervals to realize the uniform use of the water pump and extend the life of the water pump.



Motor protection function

Multiple inverter basic protection functions; Water pump exclusive protection function (water shortage protection, high and low pressure protection, leakage protection, anti-freeze embroidery protection, sensor disconnection protection)



Perfectly drive a variety of pump motors

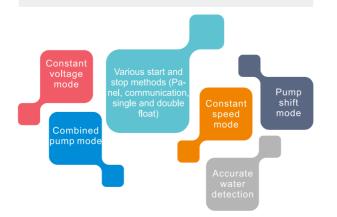
Perfectly drive a variety of water pump motors such as asynchronous, permanent magnet synchronous, synchronous reluctance, etc.







Multiple water supply functions



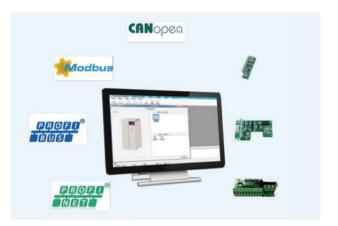
Smart IOT

- Support GPS positioning, wifi data connection, offline data storage .
- Unattended, real-time, remote control.
- Big data analysis, calculation of cumulative power generation and flow.



Easy To Debug And Rich In Expansion

- Professional PC software, one-key reading of debugging parameters.
- Virtual oscilloscope reads data accurately.
- Support ModBus, SPI, GPRS, PG card and other expansion interfaces.



GS20 Product Model

GS20 - T3 - 011G/015P - A

(1)



(5)

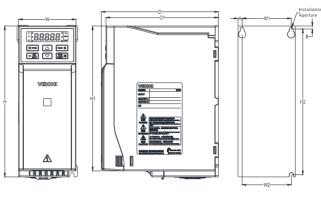
_			
1	Product Series	4	Motor Power(kW)
	GS20 series		7R5G: 7.5kW
			011 : 11kW
			018:18.5kW
			132 : 132kW
(a)	DI .		Torre
(2)	Phase	(4)	Туре
	T: Three		G: Heavy load
	S: Single		P: Light load
_			
3	Voltage	(5)	Remark
	2: 220V		A: VEICHI logo
	3: 380V		-
	6: 660V		
	11: 1140V		

GS20 Technical Specification

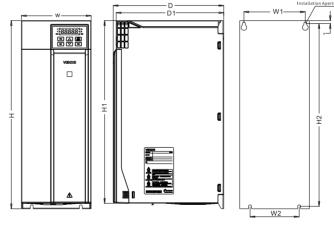
lte	ems	Specifications							
Power	Voltage, frequency	Single phase :220V 50/60Hz;Three phase: 220V 50/60Hz; Three phase 380V 50/60Hz							
input	Power rating	T/S2: 0.75kw-55kw; T3;0.75kw-800kw							
Output	Output frequency range	0Hz ~ 600Hz							
Output	Overload capacity	G type: 150% rated current/1 min, 180% rated current/10s, 200% rated current/0.5s P type: 120% rated current/1 min, 140% rated current/10s, 150% rated current/0.5s							
Main Control	Motor control type	V/F, SVC, FVC							
performance	Carrier frequency	1.0kHz~16.0kHz							
	Standard functions	PID control, speed track, power off restart, jump frequency, upper/lower frequency limit control, program operation, multi- speed, RS485, analog output, frequency impulse output							
Basic functions	Pump functions	Keyboard digital setting, Analog voltage/current terminal Al1, Analog Constant pressure control, smart pump control, multiple pump control, intelligent IOT							
	Input terminals	4 digital input terminals, 2 analog input terminals							
	Output terminals	1 digital output terminal,2 relay output,1 analog ouput							
	Communication	1 loop RS485 communication							
Protection func	tion	Basic protection: Overvoltage, under-voltage, current limit, over-current, overload, electric thermal relay, overheat, overvoltage stall, data protection, rapid speed protection, input/output phase failure protection Pump special protection: water shortage, high/low pressure, water leakage, anti-freeze, sensor disconnection							
	Install place	The altitude is less than 1000 meters, and the derating is more than 1000 meters. The derating is 1% for every 100 meters. No condensation, icing, rain, snow, hail, etc., solar radiation is less than 700W/m2, air pressure 70~106kPa							
	Temperature, humidity	-10 ~ +50°C, derating can be used above 40 °C, the maximum temperature is 60 °C (no-load operation), 5%~95%RH(no condensation) 5% to 95% RH (no condensation)							
Environment	Vibration	9 ~ 200Hz,5.9m/s2(0.6g) 5%—95%RH (no condensation)							
	Storage temperature	-30°C ~ +60°C							
	Installation	Wall hanging							
	Protection degree	IP20							
	Cooling method	Forced air cooling							

GS20 Product Dimension

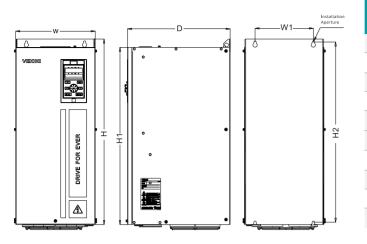
Plastic Shell



	Inverter model		Dime	nsion	ı(mm		Mour	nting o	Mounting				
ion	mverter moder	W	Н	Н1	D	D1	W1	W2	H2	Α	В	aperture	
G	20-T/S2-R75G-A	70	000	400	455	440	0.5	0.5	100			0.144	
G	20-T/S2-1R5G-A	76	200	192	155	149	65	65	193	5.5	4	3-M4	
G	20-T/S2-2R2G-A	400	0.40	004	455	440		20.5	004.5			2.144	
G	20-T/S2-004G-A	100	100	242	231	155	149	84	86.5	231.5	8	5.5	3-M4
G	20-T3-R75G/1R5P-A												
G	20-T3-1R5G/2R2P-A	76	200	192	155	149	65	65	193	5.5	4	3-M4	
G	20-T3-2R2G-A												
G	20-T3-004G/5R5P-A	100	242	231	155	149	84	86.5	231.5	8	5.5	3-M4	
G	20-T3-5R5G/7R5P-A	100	242	231	155	149	04	00.5	231.3	0	5.5	3-1014	
G	20-T3-7R5G/011P-A	116	320	307.5		169	98	100				3-M5	
G	20-T3-011G/015P-A	116	320	307.5	175	109	98	100	307.5	9	6	3-IVI5	

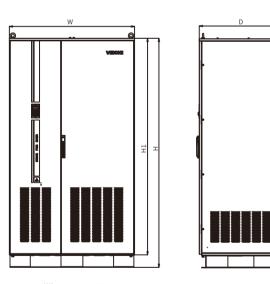


		Dime	nsion(mm)		Mount	ing din	Mounting		
Inverter model	W	Н	H1	D	D1	W1	W2	H2	В	aperture
GS20-T/S2-7R5G-A	440	202	070	225	219	125	100	270		4 ME
GS20-T/S2-011G-A	142	383	372	225	219	120	100	372	6	4-M5
GS20-T/S2-015G-A	172			225			150	416.5	7.5	
GS20-T2-018G-A		430	1		219	150				4-M5
GS20-T2-022G-A										
GS20-T3-015G/018P-A						125	100	372		
GS20-T3-018G/022P-A	142	383	372	225	219				6	4-M5
GS20-T3-022G/030P-A										
GS20-T3-030G/037P-A	172	430	,	225	219	150	150	416.5	7.5	4-M5
GS20-T3-037G/045P-A	2		'		_ 10	.50	,50	1.0.0		. 1010

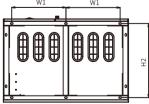


Inverter model	C	Dimens	ion(mn	n)	Mounting dimension	Mounting		
Inverter model	W	Н	H1	D	W1	H2	aperture	
GS20-T2-030G-A								
GS20-T2-037G-A	240	560	535	310	176	544	4-M6	
GS20-T2-045G-A								
GS20-T2-055G-A	270	638	580	350	195	615	4-M8	
GS20-T3-045G/055P-A								
GS20-T3-055G/075P-A	240	560	535	310	176	544	4-M6	
GS20-T3-075G/090P-A								
GS20-T3-090G/110P-A	070	638	580	250	195	CAE	4.140	
GS20-T3-011G/132P-A	270	638	360	350	195	615	4-M8	
GS20-T3-132G/160P-A	350 738	738	680	405	220	715	4-M8	
GS20-T3-160G/185P-A	330	730	000	405	220	715	4-IVIO	
GS20-T3-185G/200P-A			850	480				
GS20-T3-200G/220P-A	360	940			200	914	4-M16	
GS20-T3-220G/250P-A								
GS20-T3-250G/280P-A	070	44.40	4050	- 4-	000	4440	4.1440	
GS20-T3-280G/315P-A	370	1140	1050	545	200	1110	4-M16	
GS20-T3-315G/355P-A								
GS20-T3-355G/400P-A	400	1250	1140	545	240	1213	4-M16	
GS20-T3-355G/400P-A								
GS20-T3-450G/500P-A								
GS20-T3-500G/560P-A	460	1400	1293	545	300	1363	4-M16	
GS20-T3-560G/630P-A								

Cabinet Drive



Inverter model	C	imens	ion(mn		Mounting dimensio	Mounting	
mverter moder	W	Н	Н1	D	W1	H2	aperture
GS20-T3-630G/710P-A							
GS20-T3-710G/800P-A	1201	2198	2078	798	520	711	ф14
GS20-T3-800G/900P-A							



GS20 Wiring

