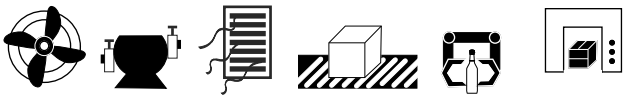
NVF2G Inverter

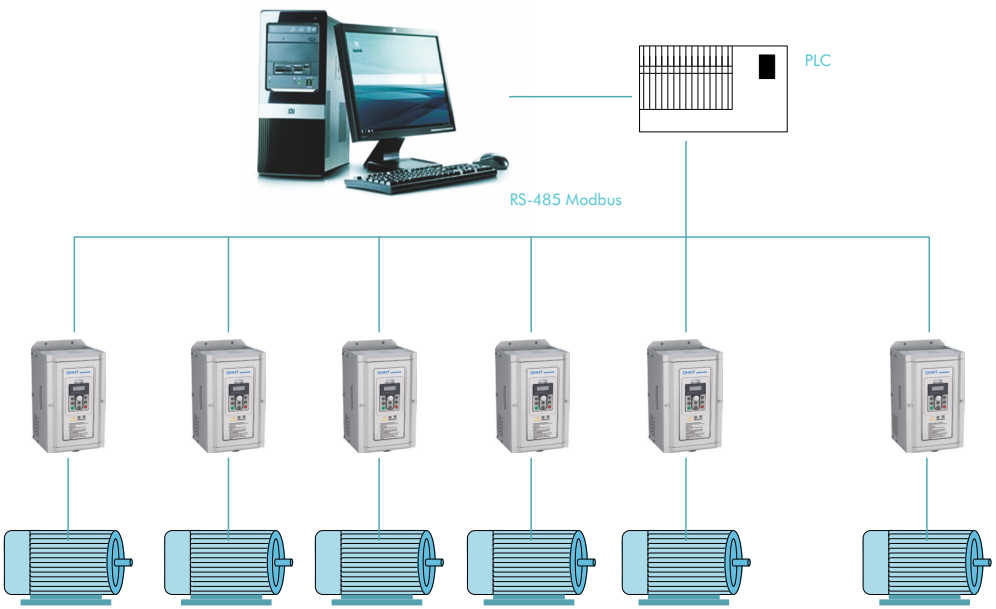
1. General

NVF2G-series inverters are high-efficiency open-loop vector inverter researched and developed independently by our company. It has the features of high starting torque (0.5 Hz, 1.5 times of rated torque), strong overload capacity, flexible and convenient operation and forward PID and reverses PID, etc.This series of inverter can be divided into mini type, general type (heavy load) and fan and water pump type (light load), with the functions of strong load adaptability, stable and reliable operation and automatic energy-saving operation, etc. This product can be widely applied to electric drive field and automation control field, such as , water supply, municipal administration, food, cement, chemical industry, dyeing, plastic machinery.

Applicable equipment of the product



Draught fan | Pump | Air conditioning | Conveyor belt | Food machinery | Packaging machinery



2.1 Excellent motor drive and control performance

- High starting torque: 0.5 Hz, 150% of rated motor torque;
- Superior energy-saving effect: the motor load more lighter more efficiency; Improve the operation efficiency of the motor through energy-saving control; the motor still operates under high-efficiency status regardless of the changes of load;
- Accurate auto tuning function: it can accurately conduct overall and static auto tuning of motor parameters with convenient debugging and simple operation, which can improve the control accuracy and response speed;
- Speed tracking: during the restarting after recovery from the momentary power interruption, it can judge the rotate direction and speed of motor and continue to operate smoothly;
- External DC electric reactor (over 110 kW) can effectively restrain higher harmonic.
- The exclusive dead time compensation technology can increase the output torque;
- Wide carrier frequency: (1-15) kHz, can effectively reduce the operation noise of motor;
- Ultra-strong overload capacity -- Maintain 1 min under 150% of rated current; in heavy load, it is uneasy frequently to trip overload protection and ensures the continuous and stable operation of the equipment;
- Real-time load monitoring -- Real-time monitoring of bus bar voltage and motor current to ensure stable start and stop and quick tracking.

2.2 High reliability design

- Design of the scope of universal input voltage: The fluctuation range of input voltage can reach up to ±15%;
- The function of input filtration can reduce harmonic interference effectively;
- The function of automatic voltage regulation (AVR) and automatic current limiting can make the system more stable;
- Perfect protection function and fault diagnosis system provide safe and reliable guarantee for the equipment.

2.3 Various application functions

- It adopts RS-485 communication interface and standard MODBUS communication protocol and can take networked automation control with external PLC equipment.
- It has wobble frequency, which is available for textile industry;
- The efficiently energy saving can be achieved by the built-in intelligent PID control and dormancy function;
- Simple PLC control: The inverter can operate in variable speed according to certain rule through simple PLC function; It not only can define one circular multistage frequency into the function code, but also can define the operation time, direction and number of cycles of the multistage frequency into the function code;
- Modular design: The NVF2G series inverter integrates the modular design that easy to be assembled and disassembled with the dismountable air heater and operation keyboard, which is easy for maintenance and usage;
- Design of common DC bus bar: Many inverters can be connected in parallel through common DC bus bar to share the feedback energy of braking, avoid overvoltage, stabilize the DC bus bar voltage of single inverter and make the equipment operate continuously and stably.

2.4 Ultra-strong environmental suitability:

- The inverter should be used at an ambient temperature of -10℃ to +40℃ and derated by 1% per 1℃ when over 40℃ ;
- The input range of wide voltage is the 15% fluctuation range of 380V, which is available for various civil and industrial power grid;
- Circuit board is processed with conformal coating to make it available for various complicated working conditions.

3. Various software functions

Speed tracking operation

Start with the speed of motor under coast stop
The motor under coast stop can be introduced to the set frequency automatically without the speed detector.

Frequency skip control

Skipping the special frequency to prevent the vibration of mechanical system
In order to prevent the vibration of mechanical system, it can automatically keep away from the resonance point when operating under the constant speed.

DC braking when starting

Make the motor under coast stop stopping and restarting again
Under coast stop, the motor will be automatically stopped by DC braking and re-started immediately when the rotate direction of the motor is uncertain.

Multistage speed operation

The program can be operated according to the set multistage speed
It can operate according to the frequency of internal storage based on the signal combination. Multistage speed control can be achieved through PLC, limit switch, etc.

Automatic voltage regulation (AVR)

Ensure the stable output voltage during the operation of inverter
During the voltage fluctuation of the power grid, the output voltage of invert will not change with it.

Energy-saving operation

Automatic operation with peak efficiency
Detect the load current and provide the motor with the peak efficiency voltage according to the load and rotate speed to achieve the most efficient energy saving operation.

Automatic current limiting

Automatically limit the output current to prevent frequent overcurrent
When the load fluctuation exceeds the current limit level, it will make automatic regulation to maintain the current within the allowed range.

Failure record

Storage the fault information automatically
When there is fault alarm, it will automatically record the current and voltage and fault type to provide reference for determining the fault cause.

Torque limit

It will protect the machinery to ensure the reliable operation of machinery and equipment
It is helpful to protect the machinery by controlling the torque generated by the motor within the set value.

Sleep Mode of water pump

To reduce the mechanical wear
When the water consumption at night is less and the output frequency of inverter is lower than the dormancy frequency, the inverter will enter into dormancy status.

Frequency detection

It is used to detect the frequency and is available for interlock of brake
When the output frequency is higher than the set value, it will output signal and is available for the interlock control of equipment.

PID control

Automatic process control
It will conduct PID calculation in the inverter and take the calculation result as the frequency instruction to quantitatively control the pressure, flow and air volume, etc.

Wobble frequency control

It is operated by swinging up and down by taking the set frequency as the center
Wobble frequency is available for textile, chemical fiber and other industries and occasions needing traversing and winding function.

Restraint of overvoltage

Prevent fault and tripping due to overvoltage
It is valid to punch and other operations that regenerated repeatedly due to the crank motion; According to the regeneration status, it will increase or decrease the operation frequency to restrain the overvoltage.

Fault restoration

To improve the reliability of continuous operation
Even if the inverter is detected for fault, it will reset automatically after auto-diagnosis to restart the operation without stopping the motor.
The number of automatic reset is 3.

Automatic torque boost

To increase the low-frequency output torque under V/F control mode
It is used for setting the manual/automatic torque boost setting under V/F control mode to effectively increase the low-frequency torque of inverter.

4. Main parameters and technical features

4.1 NVF2G Inverter specifications

4.1.1 General type (T), fan and water pump type (P)

Power Voltage	Catalog Number	Power Capacity(kVA)	Rated Input Current(A)	Rated Output Current(A)	Maximum Applicable Motor(kW)	Braking Unit
3-Phase 220V	NVF2G-0.4/T(P)S2	3.0w	2.6	2.4	0.4	Integrated inside Standard
	NVF2G-0.75/T(P)S2	4.2	4.8	4.5	0.75	
	NVF2G-1.5/T(P)S2	7.6	7.5	7	1.5	
	NVF2G-2.2/T(P)S2	7.6	10.7	10	2.2	
	NVF2G-3.7/T(P)S2	13	17.2	16	3.7	
	NVF2G-5.5/T(P)S2	18	21.5	20	5.5	
	NVF2G-7.5/T(P)S2	29	32	30	7.5	
	NVF2G-11/T(P)S2	34	45	42	11	
	NVF2G-15/T(P)S2	46	59	55	15	
	NVF2G-18.5/T(P)S2	57	80	75	18.5	Integrated inside By choosen
	NVF2G-22/T(P)S2	69	86	80	22	
	NVF2G-30/T(P)S2	85	118	110	30	
	NVF2G-37/T(P)S2	114	140	130	37	
	NVF2G-45/T(P)S2	133	172	160	45	
	NVF2G-55/T(P)S2	160	215	200	55	
	NVF2G-75/T(P)S2	236	290	270	75	Integrated Outside By choosen
	NVF2G-90/T(P)S2	267	344	320	90	
	NVF2G-110/T(P)S2	267	408	380	110	
3-Phase 380V	NVF2G-1.5/T(P)S4	3	3.9	3.7	1.5	Integrated inside Standard
	NVF2G-2.2/T(P)S4	4.2	5.8	5	2.2	
	NVF2G-3.7/T(P)S4	7.6	10.5	9	3.7	
	NVF2G-5.5/PS4	9.9	14.6	11	5.5	
	NVF2G-5.5/TS4	9.9	14.6	13	5.5	
	NVF2G-7.5/T(P)S4	13	17	17	7.5	
	NVF2G-11/PS4	18	26	22	11	
	NVF2G-11/TS4	18	26	25	11	
	NVF2G-15/T(P)S4	25	32	32	15	
	NVF2G-18.5/T(P)S4	29	38.5	37	18.5	
	NVF2G-22/T(P)S4	34	46.5	45	22	
	NVF2G-30/T(P)S4	46	62	60	30	
	NVF2G-37/T(P)S4	57	76	75	37	Integrated inside By choosen
	NVF2G-45/T(P)S4	69	92	90	45	
	NVF2G-55/T(P)S4	85	113	110	55	
	NVF2G-75/PS4	114	157	140	75	
	NVF2G-75/TS4	114	157	150	75	
	NVF2G-90/T(P)S4	133	180	176	90	
	NVF2G-110/T(P)S4	160	214	210	110	
	NVF2G-132/T(P)S4	195	256	253	132	
	NVF2G-160/T(P)S4	236	307	300	160	
	NVF2G-185/T(P)S4	267	345	340	185	
	NVF2G-200/T(P)S4	289	385	380	200	
	NVF2G-220/T(P)S4	305	430	420	220	
	NVF2G-245/T(P)S4	350	468	470	245	
	NVF2G-280/T(P)S4	403	525	520	280	
	NVF2G-315/T(P)S4	420	590	600	315	
	NVF2G-355/T(P)S4	420	665	640	355	
	NVF2G-400/T(P)S4	460	785	690	400	

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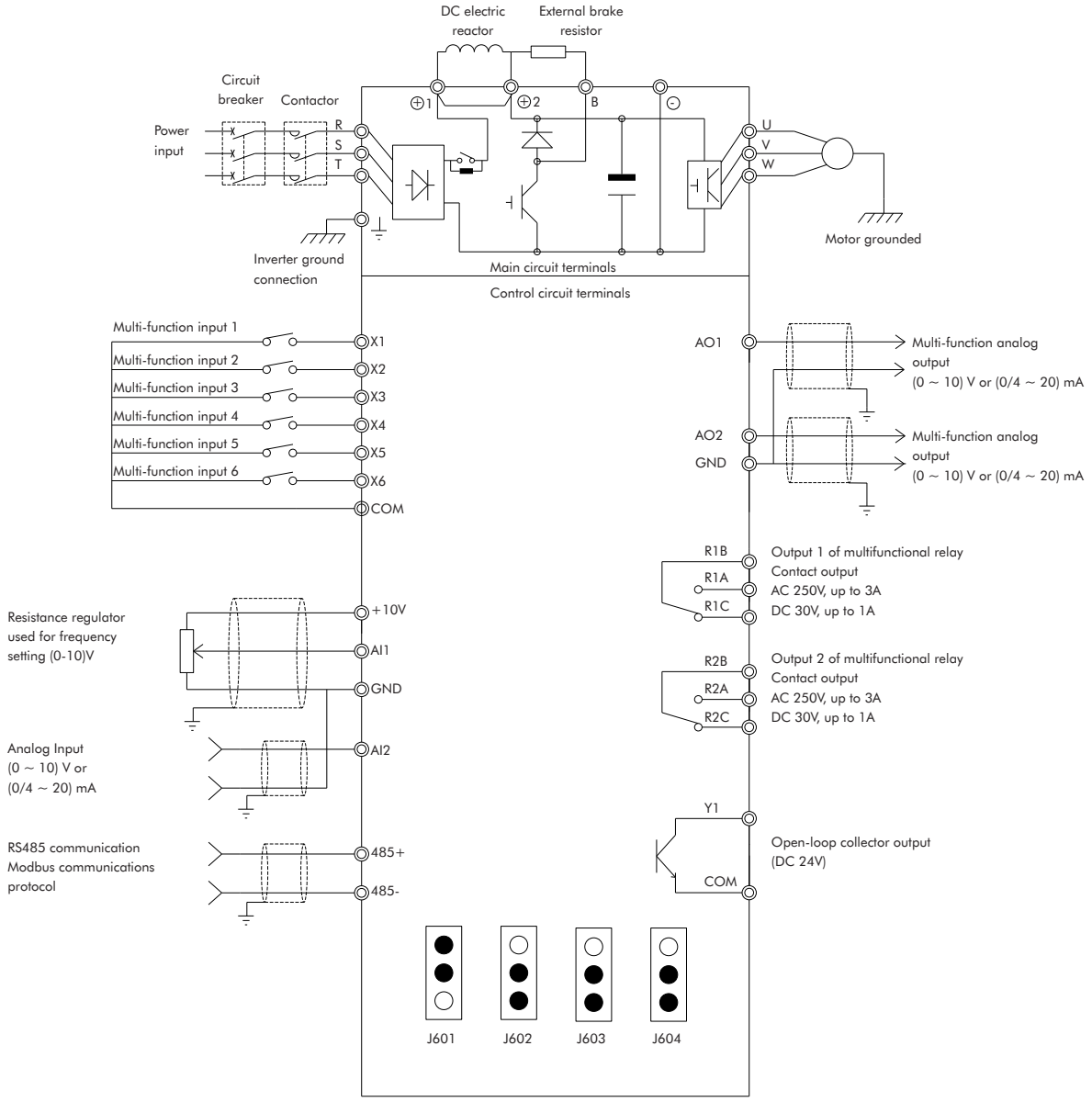
4.2 Standard technical features

Main Power	Input voltage range: 220V/380V(±15%)
	Input frequency range: (47-63)Hz
	Output voltage range: 0- rated input voltage
	Output frequency range: General type: (0-400)Hz; Fan and water pump type: (0-120)Hz
Inputs and Outputs"	Programmable digital input: 6
	Programmable analog input: AI1: (0-10)V ; AI2: (0-10)V or (0/4-20)mA; AI1 + AI2
	Open collector output: 1
	Relay output: Mini type: 2
	Analogue output: 2, (0-10)V or (0/4-20)mA
Operation functions and features	Torque boost: Automatic torque boost; Manual torque boost of 0.1% - 30.0%
	Dynamic braking: Built-in or external brake unit, external connection with brake resistance
	DC braking: Start and stop are selectable separately; motion frequency (0-10)Hz, brake current (0-150)% , actuation time (0.0-50.0)s
	Jog control: Jog frequencyrange: (0-400)Hz, time for jog acceleration and deceleration (0.1-3600.0)s
	Multistage speed operation: Multistage speed operation can be achieved through the built-in simple PLC or controlling multi-function terminal.
	Automatic voltage regulation (AVR): When the network voltage changes, it can keep the output voltage stable automatically
	Automatic current limit: To automatically limit the current during the operation to prevent fault and tripping due to frequent overcurrent
	Built-in PID controller: It can constitute a closed-loop control system conveniently
	Self-defined JOG function key: The JOG key can be set as jog operation or switch from forward and reverse operation
	Protection functions: It can provide over 20 kinds of fault protection functions: overcurrent, overvoltage, undervoltage overheating, default phase, overload, PID disconnection and other protection functions,
Technical features	Control mode: Non-PG vector control, V/F control,
	Overload capacity: Mini type and general type: 150% rated current for 1min; Fan and pump type: 120% rated current for 1 min
	Starting torque: Non-PG vector control: 0.5 Hz /150% (Rated torque)
	Speed regulation ratio: Non-PG vector control: 1: 100; V/F control: 1:50
	Speed control precision: (non-PG vector control): ±0.5% maximum speed
	Carrier frequency (1-15) kHz
Operation environment	Temperature: The inverter should be used at an ambient temperature of-10℃ to+40℃ and derated by 1% per 1℃ when it is higher than 40℃
	Humidity: Relative air humidity of the operation environment ≤ 90%, without moisture condensation
	Altitude: The inverter can achieve the rated power when installed below the altitude of 1000m. It should be derated by 10% per 1000m when over 1000m.
	Shock and vibration: The inverter should not be dropped to the ground or subjected to sudden shock. It should not be installed in places where vibration may occur.
	Electromagnetic radiation: The inverter should not be installed adjacent to electromagnetic radiation protection
	Air pollution: The inverter should not be installed in places with air pollution, such as dust or corrosive gas atmosphere
Structure	Protection degree: IP20
	Brake units Standard braking unit for model under 22 kw; standard braking unit for model equal to or above 22 kW
	Cooling mode: High-speed DC fan is used for the cooling of the whole NVF2G series inverter

5. Wiring diagram

5.1 Standard wiring diagram

5.1.1 Standard wiring diagram of general type and fan and water pump type



485+	485-	X1	X2	X3	X4	X5	X6	Y1	COM	R2A	R2B	R2C
+10V	A12	A11	GND	AO1	AO2	GND	COM	+24V	R1A	R1B	R1C	

Arrangement of the corresponding control terminal

J601 position (AI1 interface):Connect Terminal 1 with Terminal 2:0V-10V analog voltage input of AI1;

Connect Terminal 2 with Terminal 3: input of the potentiometer on panel

J602 position (AI2 interface):Connect Terminal 1 with Terminal 2:0V-10V analog voltage input;

Connect Terminal 2 with Terminal 3: 0/4 mA-20 mA analog current input

J603 position (AO1 interface): Connect Terminal 1 with Terminal 2:0V-10V analog voltage output;

Connect Terminal 2 with Terminal 3: 0/4 mA-20 mA analog current output

J604 position (AO2 interface): Connect Terminal 1 with Terminal 2:0V-10V analog voltage output;

Connect Terminal 2 with Terminal 3: 0/4 mA-20 mA analog current output

Corresponding models: NVF2G-1.5/PS4~400/TS4

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5.2 Terminal annotation

5.2.1 Terminal annotation of main circuit

Terminal Symbol	Terminal name and description
R,S,T	Input terminal of AC power supply, used for connecting with 3-phase 380V/220V power-frequency power supply
⊕ 1,Θ	Input terminal of DC power supply, used for connecting with external brake unit
⊕ 1,B	Connect with braking resistor terminal
⊕ 1, ⊕ 2	DC reactor connector
U,V,W	AC output terminal, used for connecting with the motor
⏚	Grounding terminal, used for the grounding of inverter

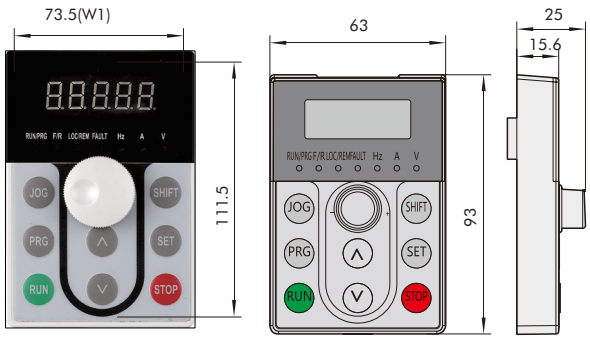
5.2.2 Description of the control circuit terminal

Terminal Symbol	Terminal name	Description
R1A,R1B,R1C	Relay output	RA and RB are N/O contract group; RB and RC are N/C contract group
R2A,R2B,R2C		The functional parameters are set through F6.01 and F6.02
Y1,COM	Open collector output	Functional parameters are set through F6.00, the factory default value is signal output under forward status
485+,485-	Serial communication terminal Power supply used for frequency setting	Terminal serially communicated with the external part
10V		Potentiometer of 4.7kΩ-10kΩ connected with AI1,AI2 and GND
AI1,GND	Input terminal of analog signal	It is used to connect with potentiometer or 0V-10V signal to be taken as the frequency setting, set or feedback of PID
AI2,GND	Input terminal of analog signal	It inputs signals of 0V-10V and 0/4mA- 20mA to be taken as the frequency setting, set or feedback of PID
AO1,AO2	Output terminal of analog signal	AO1 and AO2 connecting with the analog signal meter of DC 0V-10V or 0/4mA-20mA can be used for indicating the operation frequency, output current, output voltage, etc.
X1	Multi-function input terminal	The default set is forward operation
X2	Multi-function input terminal	The default set is reverse operation
X3	Multi-function input terminal	The default set is forward jog
X4	Multi-function input terminal	The default set is reverse jog
X5	Multi-function input terminal	The default set is fault resetting
X6	Multi-function input terminal	The default set is external fault input
COM	Common point for multi-functional input terminals	Fit the use of X1-X6
24V,COM	24V output of auxiliary power supply	24V output of DC power (≤50mA)

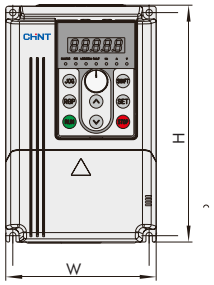
6. Mounting dimensions (mm)

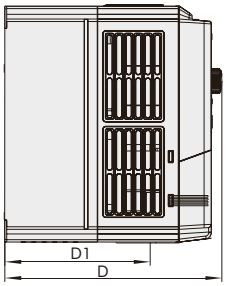
6.1 Product appearance diagram

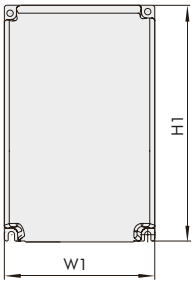
Dimension of the hole on NVF2G display box



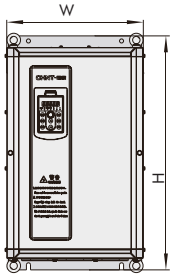
NVF2G-1.5/TS4~11/PS4 & NVF2G-0.4/T(P)S2~5.5/T(P)S2

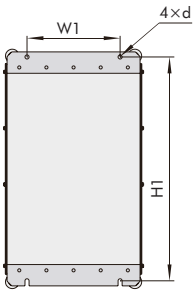




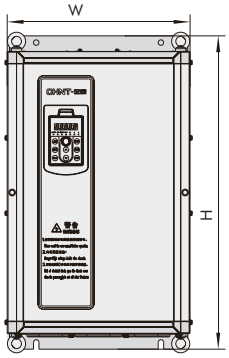


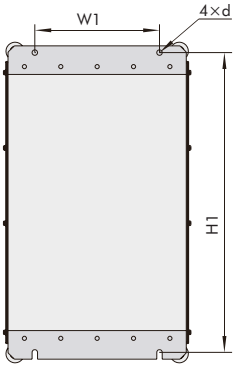
NVF2G-11/TS4~45/PS4 & NVF2G-7.5/T(P)S2~18.5/T(P)S2



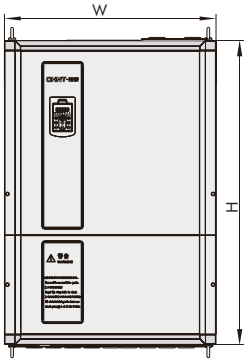


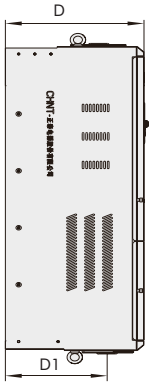
NVF2G-45/TS4~75/PS4 & NVF2G-15/T(P)S2~30/T(P)S2

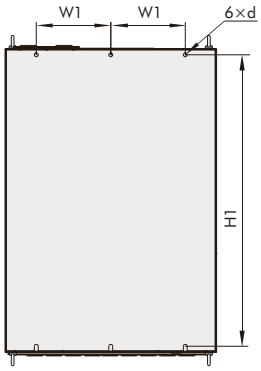




NVF2G-75/TS4~400/TS4 & NVF2G-37/T(P)S2~110/T(P)S2







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6.2 Product mounting dimensions

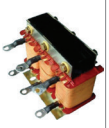
Product specifications	W	H	D	W1	H1	Mounting holed	Weight (kg)
NVF2G-1.5/PS4	118	187	173	107	175	Φ5	2.4
NVF2G-1.5/TS4(2.2/PS4)							
NVF2G-2.2/TS4(3.7/PS4)							
NVF2G-3.7/TS4(5.5/PS4)							
NVF2G-5.5/TS4(7.5/PS4)	155	247	189	140	232	Φ6	3.6
NVF2G-7.5/TS4(11/PS4)							
NVF2G-11/TS4(15/PS4)	191	378	183	90	362	Φ9	10.5
NVF2G-15/TS4(18.5/PS4)							
NVF2G-18.5/TS4(22/PS4)	215	462	213	120	407	Φ9	15
NVF2G-22/TS4(30/PS4)							
NVF2G-30/TS4(37/PS4)	300	527	230	166.6	506	Φ10	26.5
NVF2G-37/TS4(45/PS4)							
NVF2G-45/TS4(55/PS4)	352	603	257	240	577	Φ10	34.2
NVF2G-55/TS4(75/PS4)							
NVF2G-75/TS4(90/PS4)	406	631	272	126	600	Φ10	58
NVF2G-90/TS4(110/PS4)							
NVF2G-110/TS4(132/PS4)	470	807	352	150	769	Φ12	108
NVF2G-132/TS4(160/PS4)							
NVF2G-160/TS4(185/PS4)	540	892	390	180	848	Φ12	121
NVF2G-185/TS4(200/PS4)							
NVF2G-200/TS4(220/PS4)							
NVF2G-220/TS4(245/PS4)	710	1020	386	250	978	Φ13	171.5
NVF2G-245/TS4(280/PS4)							
NVF2G-280/TS4(315/PS4)							
NVF2G-315/TS4(355/PS4)	734	1200	426	250	1152	Φ16.5	280
NVF2G-355/TS4(400/PS4)							
NVF2G-400/TS4							
NVF2G-0.4/T(P)S2	118	187	173	107	175	Φ5	2.4
NVF2G-0.75/T(P)S2							
NVF2G-1.5/T(P)S2							
NVF2G-2.2/T(P)S2							
NVF2G-3.7/T(P)S2	155	247	189	140	232	Φ6	3.6
NVF2G-5.5/T(P)S2	191	378	183	90	362	Φ9	10.5
NVF2G-7.5/T(P)S2	215	426	213	120	407	Φ9	15
NVF2G-11/T(P)S2							
NVF2G-15/T(P)S2	300	527	230	166.6	506	Φ10	26.5
NVF2G-18.5/T(P)S2							
NVF2G-22/T(P)S2	352	603	257	240	577	Φ10	34.2
NVF2G-30/T(P)S2							
NVF2G-37/T(P)S2	406	631	272	126	600	Φ10	58
NVF2G-45/T(P)S2							
NVF2G-55/T(P)S2	470	807	352	150	769	Φ12	108
NVF2G-75/T(P)S2	540	892	390	180	848	Φ12	121
NVF2G-90/T(P)S2							

7. Optional accessories of peripheral equipment

Name of accessories	Functions of accessories
Circuit breaker	It will protect the power system when short circuit occurred. It must be connected between the AC reactors of the AC main circuit power supply, or be connected at the front of the inverter if there is no electric reactor.
AC input reactor	To increase the power factor of input power, reduce the higher harmonic and restrain the surge on the power supply of inverter.
DC reactor	1. To improve or restrain the aberration rate of the voltage of power grid and current waveform due to the pulse current generated at the charging and discharging of filter capacitor; 2. To reduce the amount of harmonic and increase the power supply quality of the power grid.
AC output reactor	1. It can effectively restrain the noise-grade vibration of motor; 2. It can effectively restrain the differential mode noise within 100KHz at the output side of the inverter; 3. It can effectively absorb surge voltage.

Brake units	1. It can control the pumping voltage of bus bar and has certain protective function to the inverter; 2. When frequent braking is needed, it can increase the braking capacity of inverter.
Braking resistor	It can consume the mechanical energy generated during braking as the thermal energy through brake resistor to reduce the deceleration time of drive system of the inverter.
Keyboard support plate	When the operation panel of inverter is needed to be installed on the door sheet of control cabinet or needed remote control of operation cabinet, it shall be installed through keyboard support plate.
Display extension cable	It is used as extension cable when using remote monitoring or pulling out the operation panel.

Selection table of accessories

verter	Selection of braking accessories			AC input electric reactor			AC output electric reactor			DC electric reactor		
NVF2G-□/□□□	Configuration conditions of the braking unit (10% braking ratio)	Braking resistance		Configuration	Rated current (A)	Inductance (mH)	Configuration	Rated current (A)	Inductance (mH)	Configuration	Rated current (A)	Inductance (mH)
		Resistance value (Ω)	Power (W)									
1.5/PS4,1.5/TS4	Standard internal braking unit (including 22/PS4 model)	400	260		3.7	2.239		3	2.1	Do not need to purchase DC electric reactor	—	—
2.2/PS4,2.2/TS4		250	260		5.5	2.18		6.3	1.5		—	—
3.7/PS4,3.7/TS4		150	390		9	1.85		11	1.1		—	—
5.5/PS4,5.5/TS4		100	520		13	1.56		16	0.8		—	—
7.5/PS4,7.5/TS4		75	780		18	1		18	0.65		—	—
11/PS4,11/TS4		50	1040		24	0.52		28	0.33		—	—
15/PS4,15/TS4		40	1560		34	0.397		35	0.25		—	—
18.5/PS4,18.5/TS4		32	4800		38	0.352		40	0.2		—	—
22/PS4,22/TS4	Selectable internal braking unit (including 110/PS4 model)	27.2	4800		50	0.26		50	0.18	Selectable external configuration (including 110/PS4 model)	70	0.9
30/PS4,30/TS4		20	6000		60	0.24		63	0.09		80	0.86
37/PS4,37/TS4		16	7000		75	0.235		80	0.08		100	0.7
45/PS4,45/TS4		13.6	9600		91	0.17		100	0.06		120	0.58
55/PS4,55/TS4		10	12000		112	0.16		125	0.04		146	0.47
75/PS4,75/TS4		6.8	12000		150	0.12		160	0.035		160	0.36
90/PS4,90/TS4		6.8	12000		200	0.0705		200	0.023		180	0.33
110/PS4,110/TS4	Selectable external braking unit (including 315/PS4 model)	6	20000		224	0.0692		224	0.016	Standard external configuration	250	0.24
132/PS4,132/TS4		6	25000		280	0.0503		280	0.016		280	0.24
160/PS4,160/TS4		2.5	50000		315	0.0447		315	0.013		340	0.16
185/PS4,185/TS4					400	0.0352		400	0.011		460	0.09
200/PS4,200/TS4					400	0.0352		400	0.011	Standard external configuration (including 315/PS4 model)	460	0.09
220/PS4,220/TS4					450	0.0313		560	0.009		500	0.82
245/PS4,245/TS4					560	0.0251		600	0.008		600	0.072
280/PS4,280/TS4					560	0.0251		600	0.008		600	0.072
315/PS4,315/TS4	Selectable configuration of external braking unit				660	0.042		660	0.011	Standard internal configuration	1000	0.050
355/PS4,355/TS4					660	0.042		660	0.011		1000	0.050
400/PS4,400/TS4					800	0.035		800	0.009		1000	0.050
Corresponding physical diagram of each accessory				 			 			 		
Physical diagram of display extension cable and support plate of the panel	Display extension cable						Support plate of the panel 					
	Remarks: When the panel of inverter needs to be pulled out for control, it shall be noted specially when ordering and the length of the display extension cable shall be indicated.											

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8. Ordering information

8.1 Type designation

NVF2G- □/□ □ □

- Input voltage class: 2: 220V series; 4: 380V series
- Input voltage: D: single-phase; S: three-phase
- Type: T: General type; P: Fan and water pump type
- Adaptive motor power (kW)
- Improved type
- Design sequence No.
- Inverter
- Company code

When ordering, you shall select the needed model and specification according to the illustration of model and implication:
For example:
3-phase 380V general type: NVF2G-45/TS4
3-phase 380V fan and water pump type: NVF2G-55/PS4

8.2 Selection guidance

8.2.1 In order to ensure the reliable operation of inverter, the power of inverter must be equal or greater than the power of motor.

8.2.2 General-type inverter is mainly used for load excluding fan and water pump, such as: rolling mill, mixer, ball grinder, centrifugal machine and other heavy-load machine.

8.2.3 Fan and water pump type of inverter is mainly used for fan, water pump and other light-load machine.

9. Customized VFC control cabinet

A variety of VFC control cabinets can be specially ordered according to the production process requirements.