

H1 Series Inverter

USER MANUAL



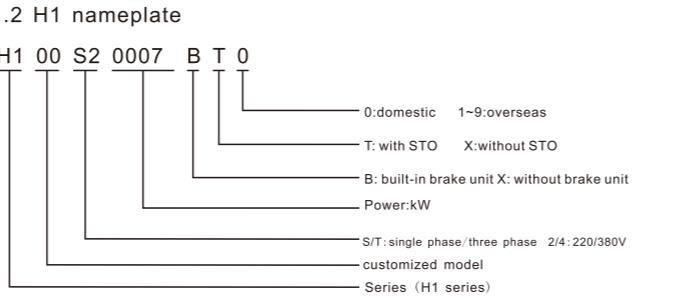
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NO.1 Product introduction

1. 1 Technical Features

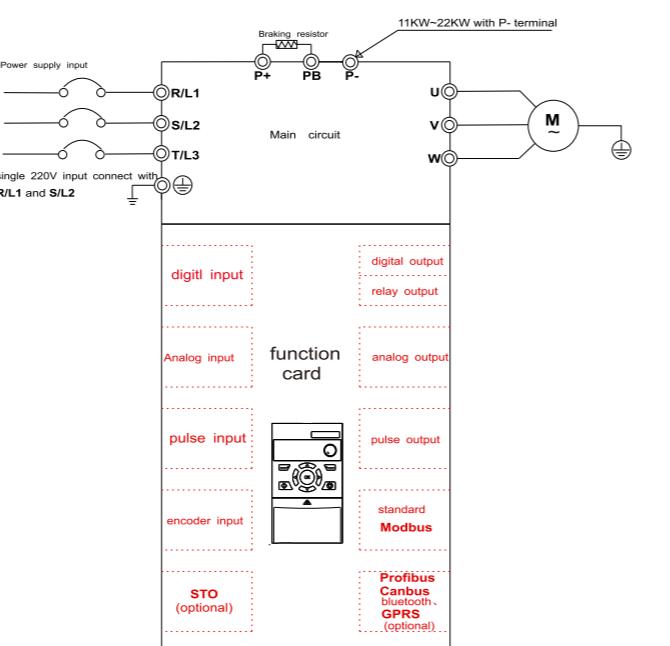
Items		Description
input	Rated voltage /frequency	3ph: 380V~440V , 50Hz/60Hz 1ph: 200V~240V , 50Hz/60Hz
	Allowed voltage	3ph: 320V~460V ; 1ph: 180V~260V; voltage Imbalance rate: <3% ; frequency: ±5%
	Voltage	0~rated input voltage
	Frequency	0Hz~1000Hz
output	Overload capacity	150% rated current 60s, 180% rated current 2s
	Control mode	V/F, SVC
	Modulation Mode	SVPWM
	Motor type	asynchronous motor, synchronous motor, single phase motor (consult factory before using)
control performance	Start torque	1Hz/150%
	Speed range	1:100(SVC)
	Frequency accuracy	digital setting: maximum frequency ±0.01%; analog setting: maximum frequency ±1%;
	Frequency resolution	digital setting: 0.1Hz; analog setting: maximum frequency ±1%;
Acceleration/deceleration curve	Acceleration/deceleration curve	line/ S-curve
	Rapid current limit	limit current rapidly within the current protection value, to ensure the safety of the equipment
	None-stop when instantaneous power off	none-stop when instantaneous power off, automatic frequency drop
	Command source	keypad, terminal, communication
Operation function	Set value source	digital, analog, multi-speed, communication
	PID	support main setting+PID
	LED display	Can display: output frequency, output voltage, output current, Bus voltage, display value 1, display value 2, error, alarm
	External keypad	YES
Operation panel	Protection function	over-current protection, over-voltage protection, under-voltage protection, overheating protection, over-load protection, phase lose protection, earth leakage, etc
	Store environment	indoor, away from direct sunlight, no dust, no corrosive gas, no inflammable gas, no oil mist, no vapour, no drip and no salinity, etc
Environment	Altitude	derating use aboue 1000M, derating 10% per 1000M
	Environment temperature	-10°C~+40°C(environment temperature around 40°C~50°C please derating use)
	Humidity	5%~95%RH, no condensation
	Store temparature	-40°C~+70°C
	Vibration	<5. 9M/S (0.6g)



3 H1 series specifications and models

Base.No	Models	Input voltage	input current	Power (kw)	output current	Adaptive motor (kW)
F1	H100S20007BX0	1 phase 220V	8.2	0.75	5.0	0.75
	H100S20015BX0	1 phase 220V	14.0	1.5	7.0	1.5
F2	H100T20022BX0	1 phase 220V	23.0	2.2	12.5	2.2
		3 phase 220V	13.5			
F3	H100T20037BX0	1 phase 220V	38.6	3.7	15.2	3.7
		3 phase 220V	16.5			
F4	H100T20055BX0	3 phase 220V	24	5.5	23	5.5
		3 phase 220V	37			
F1	H100T20075BX0	3 phase 220V	52	11	45	11
		3 phase 220V	40			
F1	H100T40007BX0	3 phase 380V	5.8	1.5	4.5	1.5
		3 phase 380V	6.5			
F2	H100T40040BX0	3 phase 380V	12.6	4.0	10.5	4.0
		3 phase 380V	21			
F3	H100T40055BX0	3 phase 380V	16	7.5	14	5.5
		3 phase 380V	28			
F4	H100T40110BX0	3 phase 380V	36	15	33	15
		3 phase 380V	42			
F5	H100T40185BX0	3 phase 380V	48	22	46	22
		3 phase 380V	22			

9.2 Main circuit and function card



Notice: different function card corresponding to different terminals. Except standard function card, can customize any type of card.

Reset parameters when using different function cards. An AC drive only can use one function card.

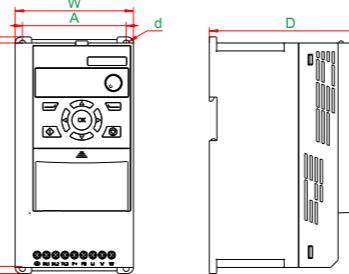
 Warning: Do not use function card when power is on!

2.1 Main circuit terminal description

Terminal identification	Name	Function description
	Grounding terminal	Safety grounding
R/L1、S/L2、T/L3	Main circuit power input terminal	Connect three phase power supply, single phase power supply connect to R/L1, S/L2
P+、PB	Braking terminal	Connect to external braking resistor
P+、P-	DC bus terminal	Two sets or more inverters use a common DC bus (11KW~22KW has P-terminal)
U、V、W	output terminal	Connect to three phase motor

2.2 Function card configuration table

NO.3 Product Dimension



Framework	H1 series					
	Dimensions (mm)					
	W(Width)	H(Height)	D(Depth)	A	B	d
F1	85	170	124	67.3	158	5
F2	97	194	133	85	184	5
F3	126	237	147	112	223	6
F4	168	298	160	154	283	6
F5	198	355	177	183	338	6

10.4 Keypad description

4. 1 Keypad appearance and keypad explanation

The figure shows a physical keypad layout on the left and a function table on the right.

Physical Keypad Layout:

- Top Row:** Includes a red logo, a blue **FotInn** label, and a digital display showing **F050.0**.
- Middle Row:** Includes a **PRG** key, a circular rotary encoder, and a **ENTER** key.
- Bottom Row:** Includes a **RUN** key, a **RESET** key, and a **M** key.
- Left Column:** Includes a **UP** arrow key, a **DOWN** arrow key, and a **ENTER** key.
- Right Column:** Includes a **UP** arrow key, a **DOWN** arrow key, and a **M** key.
- Bottom Left:** A large empty area representing the liquid crystal display screen.

Function Table:

Item	Structure	Function description
1		Display
2		Program/exit
3		Status display interface work as status switch key, other interface work as left shift key
4		Reserved key
5		RUN
6		Potentiometer: refer to parameter P1.63
7		In the mode of program, work as value change key; otherwise, UP/DOWN key, refer to parameter P1.63, P2.03, P2.04
8		
9		Enter
10		STOP/RESET
11		On/off function

2 Indicator light description

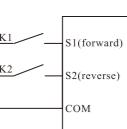
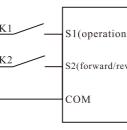
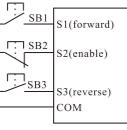
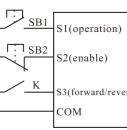
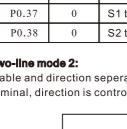
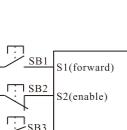
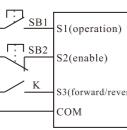
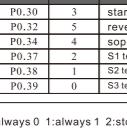
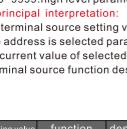
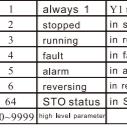
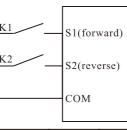
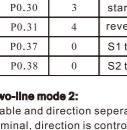
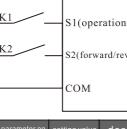
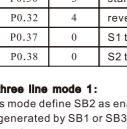
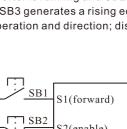
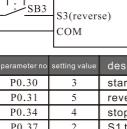
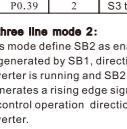
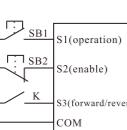
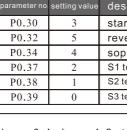
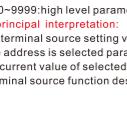
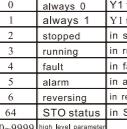
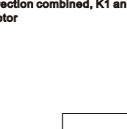
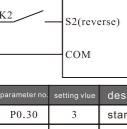
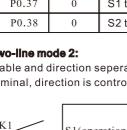
Indicator light	Status	Function description	Display code	Item description
RUN	light on/ flickering	operating/ decelerating	F	output freq.
REV	light on	reverse operation	C	output curr.
REM	light on	remote operation	U	output volt.
ALM	light on	fault indication	d	DC bus volt.
M	light on	customization indication, default alarm indication	H	display val.
			E	display val.
			A	current alar.
			E	current faul.

4.3 Display item description

Display code	Item description
F	output frequency
C	output current
U	output voltage
d	DC bus voltage
H	display value 1(P10..98)
t	display value 2(P10..99)
A	current alarm
E	current fault

NO.5 Function · Parameter Table

Function code	Function	Description (setting range)	Factory default																																													
P0.09	Parameter operation	1:parameter initialization, initialize parameters except PI.XX, in normal condition, use mode 1 initialization; 2: initialize all parameters	0																																													
P0.10	Setting(frequency) reference F1	0:keypad → P1. 63 1:multi-speed 2:A11 3:A12 5:communication	0																																													
P0.11	Setting(frequency) reference F2	0:F1 1:F2 2:F1+F2 3:F1-F2 4:F1*F2 5:maximum value(F1,F2) 6:minimum value(F1,F2) 7:average value(F1,F2) 8:PID(F1,F2)	0																																													
P0.12	setting relation selection	<p>0:F1 1:F2 2:F1+F2 3:F1-F2 4:F1*F2 5:maximum value(F1,F2) 6:minimum value(F1,F2) 7:average value(F1,F2) 8:PID(F1,F2)</p> <p>* principle interpretation: set 0 choose F1 channel setting value; set 1 choose F2 channel setting value; set 2 choose the sum of F1 and F2 channel setting value; set 3 choose the difference of F1 and F2 channel setting value; set 4 choose the product of F1 and F2 channel setting value divide 100; set 5 choose larger value of F1 and F2; se 6 choose smaller value of F1 and F2; set 7 choose average value of F1 and F2; set 8 choose PID control(F1 is setting, F2 is feedback).</p>	0																																													
P0.13	maximum setting value	-99999.000~99999.000 * principle interpretation: limit setting value range.The unit of setting source is %, the maximum setting value(P0.13) stands for 100%, take maximum setting value as standard.	50.000																																													
P0.14	motor output frequency upper limit	0.000Hz~1000.000Hz interpretation:motor operation frequency upper limit	55.000Hz																																													
P0.15	multi-speed source	<table border="1"> <tr> <td>S 4</td> <td>S 3</td> <td>S 2</td> <td>valid</td> <td>multi-speed</td> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>multi-speed 0</td> </tr> <tr> <td>0</td> <td>0</td> <td>1</td> <td></td> <td>multi-speed 1</td> </tr> <tr> <td>0</td> <td>1</td> <td>0</td> <td></td> <td>multi-speed 2</td> </tr> <tr> <td>0</td> <td>1</td> <td>1</td> <td></td> <td>multi-speed 3</td> </tr> <tr> <td>1</td> <td>0</td> <td>0</td> <td></td> <td>multi-speed 4</td> </tr> <tr> <td>1</td> <td>0</td> <td>1</td> <td></td> <td>multi-speed 5</td> </tr> <tr> <td>1</td> <td>1</td> <td>0</td> <td></td> <td>multi-speed 6</td> </tr> <tr> <td>1</td> <td>1</td> <td>1</td> <td></td> <td>multi-speed 7</td> </tr> </table> <p>0-11111111 units: S1 tens: S2 hundreds' digit: S3 thousands' digit: S4 ... * P0.15 multi-speed source, select to corresponding external terminal, multi-speed refer to P0.16-P0.23. * eg:selectS2, S3, S4 as valid external terminal to control multi-speed set P0.15=1110, detailed 8 segment corresponding relationship as above table</p>	S 4	S 3	S 2	valid	multi-speed	0	0	0		multi-speed 0	0	0	1		multi-speed 1	0	1	0		multi-speed 2	0	1	1		multi-speed 3	1	0	0		multi-speed 4	1	0	1		multi-speed 5	1	1	0		multi-speed 6	1	1	1		multi-speed 7	0
S 4	S 3	S 2	valid	multi-speed																																												
0	0	0		multi-speed 0																																												
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1	1	1		multi-speed 7																																												
P0.16	multi-speed 0		0.000%																																													
P0.17	multi-speed 1		0.000%																																													
P0.18	multi-speed 2		0.000%																																													
P0.19	multi-speed 3		0.000%																																													
P0.20	multi-speed 4		0.000%																																													
P0.21	multi-speed 5		0.000%																																													
P0.22	multi-speed 6		0.000%																																													
P0.23	multi-speed 7		0.000%																																													
P0.24	acceleration time	0.000s~3600.000s * principle interpretation: as figure, acceleration time refer to the time from 0HZ accelerate to P0.13 maximum setting value	*S																																													
P0.25	deceleration time																																															
P0.26	Jog frequency	-1000.000~1000.000 function: set jog frequency, jog command refer to P0.33	10.000%																																													
P0.30	start command source	0:invalid 1:keypad 2:communication 3:S1 4:S2 5:S3 6:S4 ... function: select command source(select keypad as command source, then reverse start command, reverse command, jog command, free stop command, safe stop command, pause command all from multi-function key of keypad)	1																																													
P0.31	reverse start command source		0																																													
P0.32	reverse command source		0																																													
P0.33	Jog command source		1																																													
P0.34	stop command source	* reverse start command: setting value reversed, and give a start command * reverse command: setting value reversed. * jog command: jog command. Priority is higher than start command, lower than stop command.	0																																													
P0.35	free stop command source		0																																													
P0.36	reset command source	<table border="1"> <tr> <td>16</td> <td>15</td> <td>14</td> <td>13</td> <td>12</td> <td>11</td> <td>10</td> <td>9</td> <td>8</td> </tr> <tr> <td>S14</td> <td>S13</td> <td>S12</td> <td>S11</td> <td>S10</td> <td>S9</td> <td>S8</td> <td>S7</td> <td>S6</td> </tr> <tr> <td>7</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> <td>0</td> <td></td> </tr> <tr> <td>S5</td> <td>S4</td> <td>S3</td> <td>S2</td> <td>S1</td> <td>communicate</td> <td>keypad</td> <td>invalid</td> <td></td> </tr> </table>	16	15	14	13	12	11	10	9	8	S14	S13	S12	S11	S10	S9	S8	S7	S6	7	6	5	4	3	2	1	0		S5	S4	S3	S2	S1	communicate	keypad	invalid		1									
16	15	14	13	12	11	10	9	8																																								
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7	6	5	4	3	2	1	0																																									
S5	S4	S3	S2	S1	communicate	keypad	invalid																																									

Function code	Function	Description(setting range)	Factory default																												
P0.37	S1 type	0:positive logic 1:negative logic 2:rising edge 3:falling edge function: select external terminal trigger type * principle interpretation: 0:positive logic, high level is valid status, low level is invalid status; 1:negative logic, high level is invalid status, low level is valid status; 2:rising edge, rising edge is valid; 3:falling edge, falling edge is valid. *two-line mode 1: the mode is most commonly used two-line mode, enable and direction combined, K1 and K2 control forward/reverse of motor	0																												
																															
		<table border="1"><tr><th>parameter no</th><th>setting value</th><th>description</th></tr><tr><td>P0_30</td><td>3</td><td>start command source is S1</td></tr><tr><td>P0_31</td><td>4</td><td>reverse start command source is S2</td></tr><tr><td>P0_37</td><td>0</td><td>S1 type is positive logic</td></tr><tr><td>P0_38</td><td>0</td><td>S2 type is negative logic</td></tr></table>	parameter no	setting value	description	P0_30	3	start command source is S1	P0_31	4	reverse start command source is S2	P0_37	0	S1 type is positive logic	P0_38	0	S2 type is negative logic														
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P0_30	3	start command source is S1																													
P0_31	4	reverse start command source is S2																													
P0_37	0	S1 type is positive logic																													
P0_38	0	S2 type is negative logic																													
* two-line mode 2: enable and direction separated, in this mode K1 is enable terminal, direction is controlled by K2.																															
																															
<table border="1"><tr><th>parameter no</th><th>setting value</th><th>description</th></tr><tr><td>P0_30</td><td>3</td><td>start command source is S1</td></tr><tr><td>P0_32</td><td>4</td><td>reverse start command source is S2</td></tr><tr><td>P0_37</td><td>0</td><td>S1 type is positive logic</td></tr><tr><td>P0_38</td><td>0</td><td>S2 type is positive logic</td></tr></table>	parameter no	setting value	description	P0_30	3	start command source is S1	P0_32	4	reverse start command source is S2	P0_37	0	S1 type is positive logic	P0_38	0	S2 type is positive logic																
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P0_32	4	reverse start command source is S2																													
P0_37	0	S1 type is positive logic																													
P0_38	0	S2 type is positive logic																													
* three line mode 1: this mode define SB2 as enable terminal, operation command is generated by SB1 or SB3, control operation direction at the same time. inverter is running and SB2 is in closed state, terminal SB1 or SB3 generates a rising edge signal to control inverter operation and direction; disconnection SB2 to stop inverter.																															
																															
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P0_37	2	S1 type is rising edge																													
P0_38	1	S2 type is negative logic																													
P0_39	2	S3 type is rising edge																													
* three line mode 2: this mode define SB2 as enable terminal, operation command is generated by SB1, direction command is controlled by K. inverter is running and SB2 is in closed state, terminal B1 generates a rising edge signal to control inverter operation, K control operation direction; disconnection SB2 to stop inverter.																															
																															
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P0.38	S2 type	0:always 0 1:always 1 2:stopped 3:running 4:fault 5:alarm 6:reversing 64:STO status 100~9999:high level parameter * principle interpretation: terminal source setting value ≥ 100 (address mode), the address is selected parameter no., actual value is decided by current value of selected parameter no.. terminal source function description as below:	0																												
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64	STO status	in STO status Y1 terminal output is 1																													
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* two-line mode 2: enable and direction separated, in this mode K1 is enable terminal, direction is controlled by K2.																															
																															
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* three line mode 1: this mode define SB2 as enable terminal, operation command is generated by SB1 or SB3, control operation direction at the same time. inverter is running and SB2 is in closed state, terminal SB1 or SB3 generates a rising edge signal to control inverter operation and direction; disconnection SB2 to stop inverter.																															
																															
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P0.39	S3 type	0:0.001~9999.000 Determine PID regulator to the integral speed adjustment of the deviation of PID feedback quantity and given quantity. smaller integral gain is, greater adjustment intensity is.	10.000S																												
																															
																															
																															
																															
P0.40	Y1 terminal source	0:always 0 1:always 1 2:stopped 3:running 4:fault 5:alarm 6:reversing 64:STO status 100~9999:high level parameter * principle interpretation: terminal source setting value ≥ 100 (address mode), the address is selected parameter no., actual value is decided by current value of selected parameter no.. terminal source function description as below:	3																												
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100~9999	high level parameter																														
P0.41	AI1 low side voltage(current)	- 999999.000~999999.000 0:function analog input AI1 setting 1:AI1 low side voltage/current: set the lowest voltage/current of input signal 2:AI1 high side voltage/current: set the highest voltage/current of input signal 3:AI1 low side setting: set corresponding value of low side voltage/current. 4:AI1 high side setting: set corresponding value of high side voltage/current.	0.000V(mA)																												
																															
																															
																															
																															
																															
																															
																															
																															
																															
P0.42	AI1 high side voltage(current)	- 999999.000~999999.000 0:function analog input AI1 setting 1:AI1 low side voltage/current: set the lowest voltage/current of input signal 2:AI1 high side voltage/current: set the highest voltage/current of input signal 3:AI1 low side setting: set corresponding value of low side voltage/current. 4:AI1 high side setting: set corresponding value of high side voltage/current.	10.000V(mA)																												
																															
																															
																															
P0.43	AI1 low side setting	0.000%																													
																															
																															
																															
		<img alt="Graph of AI1 high side setting vs. setting value showing a linear relationship from -999999.000 to 999999.000." data-bbox="100 36																													