



H100 Inverter USER MANUAL

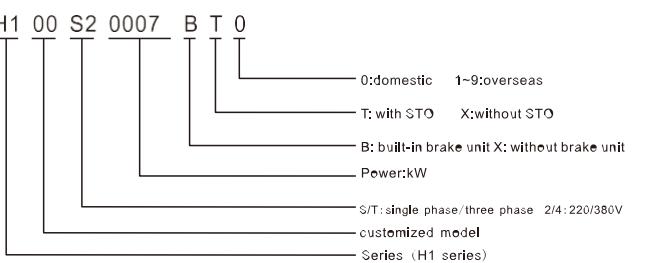


NO.1 Product introduction

1.1 Technical Features

Items	Description
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
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)
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	line S-curve
Rapid current limit	limit current rapidly within the current protection value, to ensure the safety of the equipment
Name stop when instantaneous power off	none-stop when instantaneous power off, automatic frequency drop
Command source	keypad, terminal, communication
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
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
Altitude	derating use above 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 temperature	-40°C ~ +70°C
Vibration	<5.9M/S (0.6g)

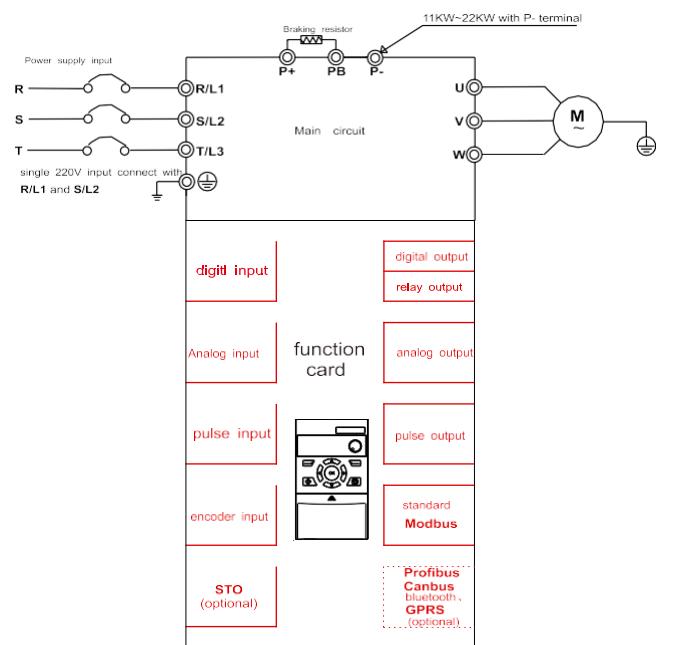
1.2 H1 nameplate



1.3 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
	H100T20037BX0	3 phase 220V	13.5			
F3	H100T20055BX0	3 phase 220V	24	5.5	23	5.5
	H100T20075BX0	3 phase 220V	37	7.5	31	7.5
F4	H100T20110BX0	3 phase 220V	52	11	45	11
	H100T40007BX0	3 phase 380V	4.0	0.75	3.0	0.75
F1	H100T40015BX0	3 phase 380V	5.8	1.5	4.5	1.5
	H100T40022BX0	3 phase 380V	6.5	2.2	5.6	2.2
F2	H100T40040BX0	3 phase 380V	12.6	4.0	10.5	4.0
	H100T40055BX0	3 phase 380V	16	5.5	14	5.5
F3	H100T40075BX0	3 phase 380V	21	7.5	19	7.5
	H100T40110BX0	3 phase 380V	28	11	26	11
F4	H100T40150BX0	3 phase 380V	36	15	33	15
	H100T40185BX0	3 phase 380V	42	18.5	40	18.5
F5	H100T40220BX0	3 phase 380V	48	22	46	22

NO.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!

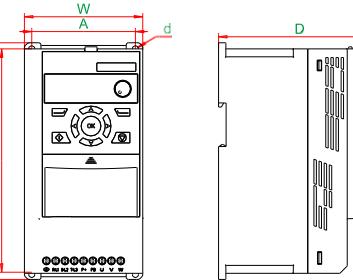
2.1 Main circuit terminal description

Terminal identification	Name	Function description
(G)	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 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

Function card	H10001	H10002	H10003	H10004	H10005	H10006	H10007	H10008	H10009	H10010	H10011	H10012
Digital input	4	3	4	8	2	2	3	2	2	4	4	3
Digital output								4	4			
Relay output	1		3	1	1	1	1	1	1	1	1	1
Analog input	1		1		2			1	1	1	1	1
Analog output					2			1	1			
Pulse input						1						
Pulse output						1						
Encoder input							1					
Modbus	1	1	1	1	1	1	1	1	1	1	1	1
Profibus									1			
Canbus									1			
Bluetooth										1		
GPRS											1	
STO												1
Typical application												

NO.3 Product Dimension



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

NO.4 Keypad description

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		Enter
9		STOP/RESET
10		Customization key

Figure 3-1 H1 series keypad

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.

4.1 Keypad appearance and keypad explanation

Indicator light	Status	Function description
RUN	light on/flickering	operating/decelerating
REV	light on	reverse operation
REM	light on	remote operation
ALM	light on	fault indication
M	light on	customization indication, default alarm indication
U, V, W		

Function code	Function	Description(setting range)	Factory default																																																																																															
P0.37	S1 type	<p>0:positive logic 1:negative logic 2:rising edge 3:falling edge function: select external terminal trigger type</p> <p>* 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.</p> <p>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</p> <table border="1"> <thead> <tr> <th>K1</th> <th>K2</th> <th>operation command</th> </tr> </thead> <tbody> <tr> <td>OFF</td> <td>OFF</td> <td>stop</td> </tr> <tr> <td>OFF</td> <td>ON</td> <td>reverse</td> </tr> <tr> <td>ON</td> <td>OFF</td> <td>forward</td> </tr> <tr> <td>ON</td> <td>ON</td> <td>stop</td> </tr> </tbody> </table> <p>parameters no. setting value description</p> <table border="1"> <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>	K1	K2	operation command	OFF	OFF	stop	OFF	ON	reverse	ON	OFF	forward	ON	ON	stop	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	0																																																																				
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P0.40	Y1 terminal source	<p>0.always 0 1.always 1 2.stopped 3.running 4.fault 5.alarm 6.reversing 64.STO status 100~9999 high level parameter</p> <p>* 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.</p> <p>parameters no. setting value function description</p> <table border="1"> <tr> <td>0</td> <td>always 0</td> <td>Y1 terminal output always 0</td> </tr> <tr> <td>1</td> <td>always 1</td> <td>Y1 terminal output always 1</td> </tr> <tr> <td>2</td> <td>stopped</td> <td>in stopped status Y1 terminal output is 1</td> </tr> <tr> <td>3</td> <td>running</td> <td>in running status Y1 terminal output is 1</td> </tr> <tr> <td>4</td> <td>fault</td> <td>in fault status Y1 terminal output is 1</td> </tr> <tr> <td>5</td> <td>alarm</td> <td>in alarm status Y1 terminal output is 1</td> </tr> <tr> <td>6</td> <td>reversing</td> <td>in reversing status Y1 terminal output is 1</td> </tr> <tr> <td>64</td> <td>STO status</td> <td>in STO status Y1 terminal output is 1</td> </tr> </table> <p>(100~9999) no. device identifier</p>	0	always 0	Y1 terminal output always 0	1	always 1	Y1 terminal output always 1	2	stopped	in stopped status Y1 terminal output is 1	3	running	in running status Y1 terminal output is 1	4	fault	in fault status Y1 terminal output is 1	5	alarm	in alarm status Y1 terminal output is 1	6	reversing	in reversing status Y1 terminal output is 1	64	STO status	in STO status Y1 terminal output is 1	3																																																																							
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P0.41	AI1 low side voltage/current	<p>-999999.000~999999.000 ○function: analog input AI1 setting -AI1 low side voltage/current: set the lowest voltage/current of input signal. -AI1 high side voltage/current: set the highest voltage/current of input signal.</p> <p>*AI1 low side setting: set corresponding value of low side voltage/current. *AI1 high side setting: set corresponding value of high side voltage/current.</p>	0.000V(mA)																																																																																															
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P0.45	AO1 signal source	<p>0.always 0 1.always 10V/20mA 2.output frequency 3.motor current 4.output voltage 5.motor torque 6.output power 7.setting frequency 100~9999 high level parameter</p> <p>* principle interpretation: AO1 signal source function description as below:</p> <table border="1"> <thead> <tr> <th>setting value</th> <th>function</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>always 0</td> <td>analog AO1 output always 0</td> </tr> <tr> <td>1</td> <td>always 10V/20mA</td> <td>analog AO1 output always 1</td> </tr> <tr> <td>2</td> <td>output frequency</td> <td>analog AO1 output is output frequency</td> </tr> <tr> <td>3</td> <td>motor current</td> <td>analog AO1 output is motor current</td> </tr> <tr> <td>4</td> <td>output voltage</td> <td>analog AO1 output is output voltage</td> </tr> <tr> <td>5</td> <td>motor torque</td> <td>analog AO1 output is motor torque</td> </tr> <tr> <td>6</td> <td>output power</td> <td>analog AO1 output is output power</td> </tr> <tr> <td>7</td> <td>setting frequency</td> <td>analog AO1 output is setting frequency</td> </tr> </tbody> </table> <p>[100~9999] high level parameter</p>	setting value	function	description	0	always 0	analog AO1 output always 0	1	always 10V/20mA	analog AO1 output always 1	2	output frequency	analog AO1 output is output frequency	3	motor current	analog AO1 output is motor current	4	output voltage	analog AO1 output is output voltage	5	motor torque	analog AO1 output is motor torque	6	output power	analog AO1 output is output power	7	setting frequency	analog AO1 output is setting frequency	2																																																																				
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P0.46	AO1 low side setting	<p>0.000</p>																																																																																																
P0.47	AO1 high side setting	<p>50.000</p>																																																																																																
P0.48	AO1 low side voltage(current)	<p>0.000V(mA)</p>																																																																																																
P0.49	AO1 high side voltage(current)	<p>10.000V(mA)</p>																																																																																																
P0.50	PID proportional gain	<p>0.0010%~10.000%</p> <p>Determine the adjustment intensity of the whole PID regulator, bigger proportional gain is, bigger adjustment intensity is.</p>	0.010%																																																																																															
P0.51	PID integral gain	<p>0.001S~9999.000S</p> <p>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.</p>	10.000S																																																																																															
P0.52	PID output upper limit	<p>-1000.000~1000.000</p> <p>PID adjust the output maximum value, if higher than maximum value, then output PID output upper limit, relative to P0..11 maximum setting value percentage.</p>	100.000%																																																																																															
P0.53	PID output lower limit	<p>-1000.000~1000.000</p> <p>PID adjust the output minimum value, if lower than minimum value, then output PID output lower limit, relative to P0..11 maximum setting value percentage.</p>	0.000%																																																																																															
P0.54	PID range	<p>0.001~9999.000</p> <p>set according to actual feedback value, if lower than feedback value, then PID invalid.</p>	100.000																																																																																															
P0.55	PID dormancy frequency	<p>0.000~500.000</p> <p>set dormancy accurate frequency, relative to P0..11 maximum setting value percentage.</p>	0.000%																																																																																															
P0.56	PID enter dormancy time	<p>0.000~3600.000</p> <p>inverter reach enter dormancy time and meet to dormancy time, enter dormancy.</p>	0.000s																																																																																															
P0.57	PID wakeup deviation	<p>0.000~100.000</p> <p>percentage based on setting value.</p>	0.000%																																																																																															
P0.58	PID enter wakeup time	<p>0.000~3600.000</p> <p>inverter reach wakeup deviation and meet to wakeup time, operation again.</p>	0.000s																																																																																															
P0.59	PID dormancy action	<p>0.no dormancy: 2.descelerate to stop: 4.pause: 5.operate in lowest frequency: PID enter dormancy according to settling dormancy action.</p>	0																																																																																															
P0.60	startup function	<p>0.start frequency operation 1.speed start 2:DC injection</p> <p>* principle interpretation: 0.no frequency output startup mode ,meet to P0..61 startup time setting, P0..62 start frequency start to startup operation, 1.speed start, search rotating motor speed, smooth start without impact from search speed, 2:DC injection, inverter startup by 'DC injection before startup' mode.</p>	0																																																																																															
P0.61	startup time	<p>0.000S~6000.000S</p> <p>* principle interpretation: when system startup, setting start function work within setting start time.</p>	0.000S																																																																																															
P0.62	start frequency	<p>0.000Hz~100.000Hz</p> <p>* principle interpretation: start function finish, if setting frequency bigger than start frequency, system start from start frequency; if setting frequency smaller than start frequency, system start from setting frequency.</p>	0.000Hz																																																																																															
P0.63	DC injection current	<p>0.000%~200.000%</p> <p>* principle interpretation: parameter DC injection current, (set P0..62 as DC injection)</p> <p>* principle interpretation: start mode is DC injection, need to set magnitude of DC braking current, 100% corresponding to inverter rated current.</p>	100.000%																																																																																															
P0.64	stop function	<p>units:0/free stop, 1:DC braking, 2:accute stop</p> <p>* principle interpretation: during stop process, stop function starts work when output frequency smaller than stop frequency, if setting frequency is same, realize consistent repeatability of stop position. To get the best efficiency, deceleration time not to trigger over pressure and over loss rate prevention function as long as possible.</p>	0																																																																																															
P0.65	stop frequency	<p>0.000Hz~1000.000Hz</p> <p>Interpretation refer to 0.64</p>	0.000Hz																																																																																															
P0.66	DC braking current	<p>0.000%~150.000%</p> <p>set DC braking current.</p>	100.000%																																																																																															
P0.67	DC braking time	<p>0.000s~1000.000s</p> <p>set DC braking time.</p>	0.000s																																																																																															
P0.68	braking resistor mode	<p>0:invalid 1:valid</p> <p>function: braking resistor braking mode parameter set</p>	1																																																																																															
P0.69	control mode	<p>0.VF 1.vector control 2.function:select motor control algorithm</p>	1																																																																																															
P0.70	carrier frequency	<p>2kHz~16kHz</p> <p>*function: set carrier frequency</p>	*kHz																																																																																															
P0.71	motor power	<p>0.000kW~100000.000kW</p> <p>*function: set motor parameters</p>	*kW																																																																																															
P0.72	motor voltage	<p>0V~1000V</p> <p>*function: set motor parameters</p>	*V																																																																																															
P0.73	motor frequency	<p>1Hz~3000Hz</p> <p>*function: set motor parameters</p>	*Hz																																																																																															
P0.74	motor current	<p>0.00A~1000.00A</p> <p>*function: set motor parameters</p>	*A																																																																																															
P0.75	motor speed	<p>10rpm~65535rpm</p> <p>*function: set motor parameters</p>	*RPM																																																																																															
P0.76	VF curve F1	<p>0Hz~3000Hz</p>	50Hz																																																																																															
P0.77	VF curve F2	<p>* principle interpretation: set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding frequency points of V/F curve to adjust control characteristics of the corresponding control points.</p>	50Hz																																																																																															
P0.78	VF curve F3	<p>50Hz</p>	50Hz																																																																																															
P0.79	VF curve F4	<p>50Hz</p>	50Hz																																																																																															
P0.80	VF curve V0	<p>0V</p>	0V																																																																																															
P0.81	VF curve V1	<p>0V~10000V</p> <p>* principle interpretation: set V/F curve under V/F control mode. When vector control 1 is adopted, set the corresponding voltage points of V/F curve to adjust control characteristics of the corresponding control points.</p>	*V																																																																																															
P0.82	VF curve V2	<p>*V</p>	*V																																																																																															
P0.83	VF curve V3	<p>*V</p>	*V																																																																																															
P0.84	VF curve V4	<p>*V</p>	*V																																																																																															
P0.85	VF curve V5	<p>*V</p>	*V																																																																																															
P0.86	VF curve V6	<p>*V</p>	*V																																																																																															
P0.87	voltage	<p>MAX</p>																																																																																																
P0.88	time	<p>0.000~100.000</p>																																																																																																
P0.89	frequency	<p>0.000~100.000</p>																																																																																																
P0.90	parameter	<p>T1:PID enter dormancy time P0..58</p> <p>T1:PID enter wakeup time P0..58</p> <p>P0..59:PID damping action</p>																																																																																																
P0.91	parameter	<p>P0..61:PID setting source P0..92:PID setting value P0..11:PID feedback value P0..12:PID mode selection P0..14:AI1 high side setting P0..44:AI1 high side setting P0..45:AI1 high side setting P0..46:AI1 high side setting P0..47:AI1 high side setting P0..48:AO1 low side voltage/current P0..49:AO1 high side voltage/current P0..50:PID proportional gain P0..51:PID integral gain P0..52:PID range P0..53:PID damping frequency P0..54:PID damping time P0..55:PID damping deviation P0..56:PID damping amplitude P0..57:PID damping threshold P0..58:PID damping action P0..59:PID damping action</p>																																																																																																
P0.92	parameter	<p>P0..62:DC injection current P0..63:DC injection time P0..64:DC injection deviation P0..65:DC injection amplitude P0..66:DC injection threshold P0..67:DC injection action</p>																																																																																																
P0.93	parameter	<p>P0..68:stop function P0..69:stop frequency P0..70:stop time P0..71:stop deviation P0..72:stop amplitude P0..73:stop threshold P0..74:stop action</p>																																																																																																
P0.94	parameter	<p>P0..75:stop function P0..76:stop frequency P0..77:stop time P0..78:stop deviation P0..79:stop amplitude P0..80:stop threshold P0..81:stop action</p>																																																																																																
P0.95	parameter	<p>P0..82:stop function P0..83:stop frequency P0..84:stop time P0..85:stop deviation P0..86:stop amplitude P0..87:stop threshold P0..88:stop action</p>																																																																																																
P0.96	parameter	<p>P0..89:stop function P0..90:stop frequency P0..91:stop time P0..92:stop deviation P0..93:stop amplitude P0..94:stop threshold P0..95:stop action</p>																																																																																																