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Inverter MODEL: AT1-2200X

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Inverter

MODEL:AT1-2200X



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

IMPORTANT SAFEGUARDS



Read all safety warnings, instructions, illustrations and specifications provided with this inverter. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

WARNING :

This equipment is a high voltage device, please do not attempt to disassemble this equipment at any time to avoid danger. After a device failure, if the external switch fails to restart the device, please contact your reseller for handling.

WARNING: ELECTRICAL SHOCK AND FIRE HAZARD!

1. Failure to comply with this instruction could result in an electrical failure, fire and electrocution.

- 2. DO NOT DISASSEMBLE .
- 3. Do not submerge inverter .
- 4. Do not connect two or more transformers in parallel
- 5. Plug the power supply unit directly into a GFCI wet location outlet .
- 6. Do not use an extension cord

7. Installation of this inverter and related wiring must be done by aqualified electrician in compliance with all applicable electrical codes.

WARNING :

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the users authority to operate the equipment .

SAVE THESE INSTRUCTIONS

FCC Information

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This product may cause harmful interference.

2) This product must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications to this product not expressly approved by the party.responsible for compliance could void the user's authority to operate the product.

Note: This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules, These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the distance between the product and receiver.
- Connect the product to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

Correct Disposal

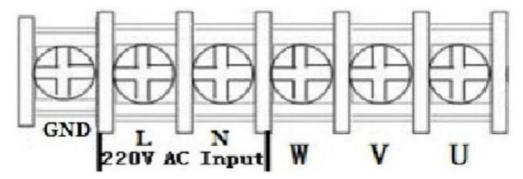


This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheelie bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product

and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.

1. Installation and wiring

- 1. Main circuit terminal and function description
- (1) Single-phase to three-phase



Terminal label	Function description
L,N	Single phase AC 220V input terminal
U,V,W	Output terminal connect to Three phase 220V AC motor
GND	Grounding terminal

2. Terminal description

Port	Functional description	Instructions
15V	15V power output	200mA15V output
X6	Input port6 (Reversing switch)	Short Port X6 and COM, input signal effective
X5	Input port 5(Reverse rotation Control switch)	Short Port X5 and COM, input signal effective
X4	Input port 4(Forward rotation Control switch)	Short Port X4 and COM, input signal effective
X3	Input port 3(section- speed 3)	Short Port X3 and COM, input signal effective
X2	Input port 2(section- speed 2)	Short Port X2 and COM, input signal effective
X1	Input port 1(section- speed 1)	Short Port X1 and COM, input signal effective
СОМ	Common GND	
VL1	External analog voltage input	0-5/10 V Analog voltage input
SP1	Open-collector output 1	
5V	5V power output	supply 5V 20mA power output
тс	Relay output C	250VAC 5A/30VDC 3A
ТВ	Relay output B	TA and TB Normal Close ,TA and TC Normal Open
TA	Relay output A	

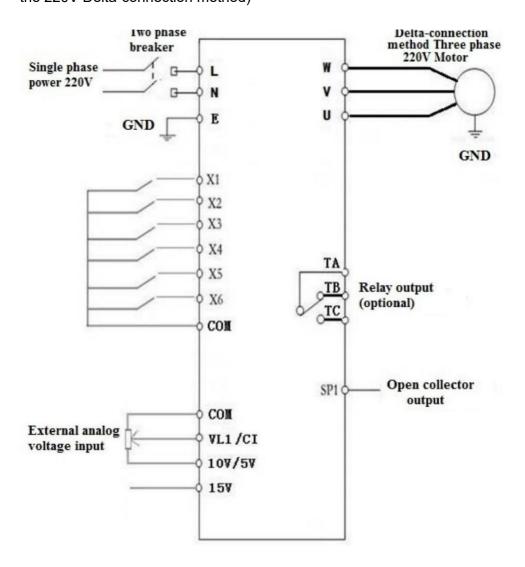
3. Multi-speed input Frequency control table :

	Section	Section	Section	Original
	speed input 1	speed input 2	speed input 3	Frequency
Main Speed	1	1	1	50
Section speed 1	0	1	1	45
Section speed 2	1	0	1	40
Section speed 3	0	0	1	35
Section speed 4	1	1	0	30
Section speed 5	0	1	0	25
Section speed 6	1	0	0	20
Section speed 7	0	0	0	15
Note:	0 means input Port connect with COM, 1 means disconnect.			1 means

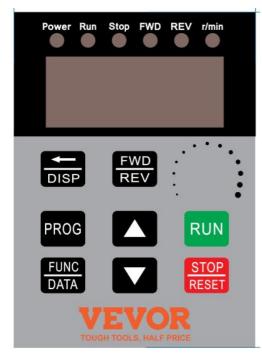
4. Basic operation wiring diagram

(1) Single-phase input three-phase output

(Three phase 220V, if 380V Star-connection method needs to change to the 220V Delta-connection method)



5. Operation panel



6. Keys instructions

	lcon	Function description		
		For selecting mode or Programming mode (it i		
1	(Programming)	available not mat	er the Inverter star or stop),	
		press this key f	for modifying parameters.	
		Function data sett	ing key. Normal mode: press	
2	(Function/ Save)	this key to disp	play the information of the	
2		Inverter,such a	s target frequency, output	
		frequency an	d current, temperature;	
	Key	Parameter		
3	Rey	number or	Short press this key, then the	
	(📥 .)	parameter value	numerical value will change	
	()	increase	gradually.Long press this	
	Key	Parameter	key, then the numerical value	
4	i key	number or	will change	
- T		parameter value	rapidly	
	()	decrease		
5	Shift	Shift in programmi	ng mode, jog in normal mode	
6	Forward/ Reverse	Forward/ Reverse switching key		
7	Start	Start Inverter output		
8	Stop / Reset	Break down,fault resetting		
Note	Please modify the parameters under the stop state, otherwise the			
note	changed parameters cannot be saved.			

Chapter 2 Parameter specification

1. Parameter specification

Parameter	Parameter	Decemptor range	Default	Unit
Parameter	specification	Parameter range	Delault	Unit
P00	Maximum	0220.0/380.0	220/380	V
PUU	voltage	0220.0/360.0	220/300	V
P01	Reference	0400.0	50	Hz
FUT	frequency	0400.0	50	112
P02	Intermediate	0220.0/380.0	110/190	v
FUZ	voltage	0220.0/380.0	110/190	v
P03	Intermediate	0400.0	25	Hz
1 00	frequency	0400.0	20	112
P04	Minimum	0220.0/380.0	0	v
	voltage	0220.0/000.0	0	v
P05	Minimum	0400.0	0	Hz
1.00	frequency		Ŭ	
P06	Maximum	0400.0	65.0	Hz
	operating			
P07	Minimum	0400.0	0	Hz
	operating			
P08	Hide password	065535	00000	
P09	Input password	065535	0	
	Marking	0: Panel keyboard;		
D10	Working	1:Panel potentiometer;	1	
P10	frequency	2:External analog signal		
	source	4: RS485.		
	Start/stop	0: Panel keyboard;		
P11	Start/stop control source	1: RS485;	0	
		2: External port.		
P12	Stopping	0:Inertial stop;	1	
	Modes	1:Deceleration stop;	1	

		O. Dualia, sta		
		2: Brake stop;		
		3:Emergency brake.		
P13	Braking time	02.5	0.5	S
P14	Braked Voltage	0140.0	20	V
P17	Machine number	1-255	1	
P18	Operating arrival	0100.0	50	Hz
P20	Over temperature protection selection	180	80	
P21	Revolution for 50Hz	0-8000	2800	
P22	Carrier setting	120	10	
P23	Frequency adjusting step size	1100	5	0.1H z
P24	Overload protection buffer time	0.160.0	3	S
P26	Working frequency	0400.0	50	Hz
P27	Section speed 1 setting	0400.0	45	Hz
P28	Section speed 2 setting	0400.0	40	Hz
P29	Section speed 3 setting	0400.0	35	Hz
P30	Section speed 4 setting	0400.0	30	Hz

P31	Section speed 5	0400.0	25	Hz
P32	setting Section speed 6 setting	0400.0	20	Hz
P33	Section speed 7 setting	0400.0	15	Hz
P34	Main rising velocity	11000	25	Hz/S
P35	1st rising velocity	11000	25	Hz/S
P36	2nd rising velocity	11000	25	Hz/S
P37	3rd rising velocity	11000	25	Hz/S
P38	4th rising velocity	11000	25	Hz/S
P39	5th rising velocity	11000	25	Hz/S
P40	6th rising velocity	11000	25	Hz/S
P41	7th rising velocity	11000	25	Hz/S
P42	Main descent velocity	11000	25	Hz/S
P43	1st descent velocity	11000	25	Hz/S
P44	2nd descent velocity	11000	25	Hz/S
P45	3rd descent velocity	11000	25	Hz/S
P46	4th descent velocity	11000	25	Hz/S
P47	5th descent	11000	25	Hz/S

	velocity			
P48	6th descent velocity	11000	25	Hz/S
P49	7th descent velocity	11000	25	Hz/S
P50	Multi function input 1 (X1 binding post)	0:invalid,terminal is non-functioning 1:wire control stop 2:keying stop;	13	
P51	Multi function input 2	3:keying operation; 4:stop keying;	14	
P52	Multi function input 3	5:wire forward operation 6:wire reverse	15	
P53	Multi function input 4	operation; 7: reservation	5	
P54	Multi function input 5	8: error reset signal; 9: wire reversing switch;	6	
P55	Multi function input 6	 10:keying forward switching; 11:keying forward switching; 12: reverse switch keying; 13: section speed input 1; 14:section speed input 2; 15: section speed input 3; 16: external error signal. 17: Jog Forward; 18: Jog Reverse; 	9	

		19: Emergency stop;		
		20:Relay Control.		
P58	Multi function input 1 (SP1)	 0: invalid, no output; 1:operating instructions; 2:set arrival instructions 3: fault indication; 5: Emergency stop; 6: For P50P55=20; 	0	
P60	Multi function input 2	Idem (Relay output)	0	
P62	Display options	 0: setting frequency; 1: operating frequency; 2: revolution 3: current; 4: temperature; 5: time; 	0	
P65	Power on options	 0: normal power on; 1: report error with start signal 2:Power on forward; 3:Power on reverse. 	0	
P66	Input stabilization time	065535	60	mS
P67	Voltage coefficient	065535	28500	
P68	Under voltage setting	0220/380	60/180	V
P69	Overvoltage setting	220.0400/680	400/600	V
P70	Torque compensation options	0: P72 is compensation amount; 1: Multiply P72 by P71 after P71 minus input voltage	0	

	1		1	,
	Torque			
P71	compensation	0300.0	10	V
	voltage			
	Torque			
P72	compensation	0100	0	
	setting			
	Maximum			
P73	external		31440	
	analog	065535		
	Minimum			
P74	external		2096	
	analog	065535		
	Zero current			
P75	compensation	065535	1130	
	value			
P76	Current	0 65525	28000	
FIO	coefficient	065535	20000	
		065535		
P77	Parameter reset	(It is the reset when	0	
		54321)		
P78	Main current	0-65535	12000	mA
F70	overload	0-00000	12000	mA
P79	First current	0-65535	12000	mA
F79	overload	0-00000	12000	mA
P80	Second current	0-65535	12000	mA
Pou	overload	0-00000	12000	mA
D01	Third current	0.05525	10000	
P81	overload	0-65535	12000	mA
P82	Fourth current	0 65525	12000	mA
	overload	0-65535	12000	mA
D 02	Fifth current	0.0000	10000	
P83	overload	0-65535	12000	mA
P84	Sixth current	0-65535	12000	mA

	overload			
P85	Seventh current overload	0-65535	12000	mA
P86	Jog forward frequency	0400.0	20	Hz
P87	Jog reverse frequency	0400.0	20	Hz
P88	Jog rising velocity	11000	50	Hz/S
P89	Jog descent velocity	11000	50	Hz/S
P90	Jog stopping modes	0:Inertia stop; 1:Decelerate stop; 2:Braking stop; 3:Emergency brake.	1	
P91	Jog braking time	02.5	0.1	S
P124	Fan start temperature	=0 Fan running when VFD starts	0	°C
P127	Remaining hours	065535	65535	н

2. Parameter setting password and Down time

stop:

P08 is the hidden password, it always shows only 00000, not the actual value.

When input the value of P09=the hidden value of P08, the P08 shows hidden value, and the P08 and other parameters can be changed. The P09 will be nullified when unplug the power cable to restart.

When P127=65535, the function of countdown do not start.

When P127 < 65535,the function of countdown will start, the P127 will minus 1 when the Inverter runs for one hour. The frequency converter will be stopped when the countdown of P127 to 0 hour.

3. Parameter setting procedure:

1. Press the programming key to enter into the programming state;

2. Use the arrow keys and shift key to find the parameters that need to be modified;

- 3. Press function/save key to enter into the parameter;
- 4. Use the arrow keys and shift key to amend the parameter value;
- 5. Press the function/ save key to store the parameter;
- 6. Press the programming key to exit the programming state.

7. Fault Code

Fault Code Display	Fault Code Description
Err 1	Short Circuit/Current overload/Power
	Module protection
Err 2	Undervoltage protection

Err 3	Over voltage protection
Err 4	Driving Circuit Failures
Err 5	Input at startup when electrified
Err 6	Over current protection
Err 7	Overtime
Err 8	Excessive temperatures for radiator
Err 9	External fault

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