

**coreken**  
科肯电气

Integrated Control Solution Provider

# HIGH PERFORMANCE FREQUENCY INVERTER

(H100) (H230) (H330) Series

Ideal Choice for Industrial and Automation Applications



广州科肯电气有限公司

Guangzhou Coreken Electric Co.,Ltd

Website: [www.corekenelectric.com](http://www.corekenelectric.com)

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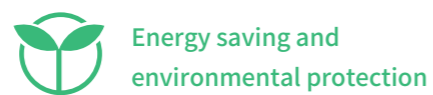
# About Us



## GuangZhou CoreKen Electric Co.Ltd.

Guangzhou Coreken Electric Co.,Ltd is a high-tech enterprise specializing in the design,R&D,manufacturing and application of automation control products from 2014. Its mission is delivering value to the customers and creating fortune for the society.

Its main products are frequency inverter,servo driver and motor,integrated solutions for automation,etc. Its products mainly applied to the following fields.



They are widely applied to machines of lifting,machine tools,packing,logistics transportation,textile and fiber,construction,mining,intelligent equipment and other machinery industries.Currently They have won customers from 50 countries of the world including Russia,Turkey,Egypt,Mexico,Brazil,India and Iran,etc.

Looking forward to the visiting and business cooperation of customers and friends from all countries!

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# H100 Series Simple Inverter



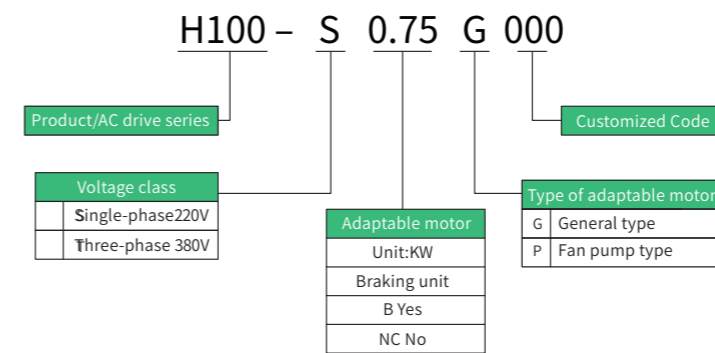
## Product Features

- Brand-new delicate design, it saves up to 40% space.
- Various installation supported, it also support seamless guide rail installation.
- Standard communication port, support Modbus communication protocol.

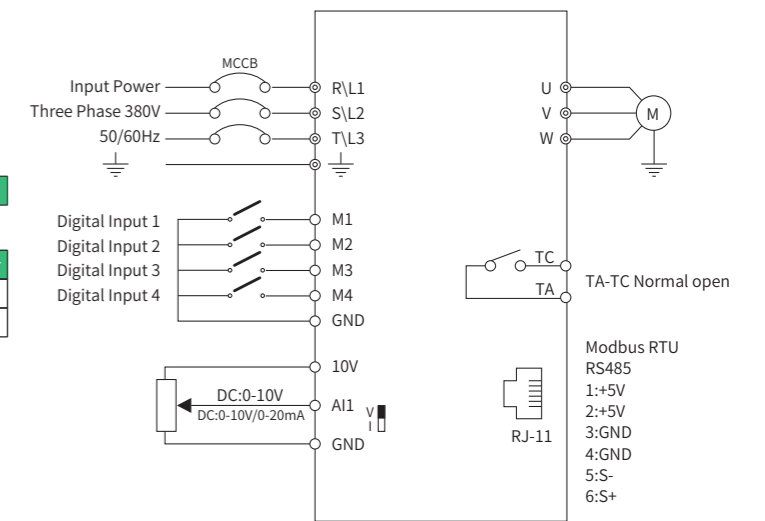
## Technical Table

Item	Specification
Maximum frequency	600Hz
Carrier frequency	0.5kHz~16kHz;The carrier frequency is automatically adjusted based on the load features.
Input frequency resolution	Digital setting: 0.01Hz Analog setting: maximum frequency × 0.5%
Control mode	Voltage/Frequency(V/F) control
Overload capacity	Model G machine: 60s for 150% of the rated current, 1s for 180% of the rated current
Torque boost	Customized boost 0.1%-30.0%
V/F curve	Three methods: straight-line V/F curve; Multi-point V/F curve; N-power V/F curve (1.6 power, 2 power)
Acceleration and deceleration curve	Straight line or S-curve acceleration and deceleration mode; Four groups of acceleration/deceleration; time with the range of 0.0-6500.0s
DC braking	DC braking frequency: 0.00 Hz to maximum frequency Braking time: 0.0-36.0s Braking action current value: 0.0%-100.0%
JOG control	Braking current: 0.0%~100.0% JOG frequency range: 0.00-50.00Hz JOG acceleration/deceleration time: 0.0-6500.0s
Simple PLC, multi-wire segment	Up to 16 speeds can be achieved via the onboard PLC or control terminals
Onboard PID	It realize process-controlled closed loop control system easily
Auto voltage regulation(AVR)	It can keep constant output voltage automatically when the mains voltage changes
Overvoltage/Overcurrent stall control	The current and voltage are limited automatically during the running process so as to avoid frequent tripping due to overvoltage/overcurrent.
Running command source	Operation panel Control terminals Serial communication port You can perform switchover between these sources in various ways.
Frequency source	There are a total of 8 frequency sources, such as digital setting, analog voltage setting, analog current setting, pulse setting and serial communication port setting.
Input terminal	4 digital input(DI) terminals 1 analog input(AI) terminals, which supports 0-10v voltage input or 4-20 mA current input
Output terminal	1 relay output terminal
Protection mode	Motor short-circuit detection at power-on, output phase loss protection, overcurrent protection, overvoltage protection, undervoltage protection, overheat protection and overload protection.
Options	Optional RS485 external keypad, through the RJ-11 communication terminal

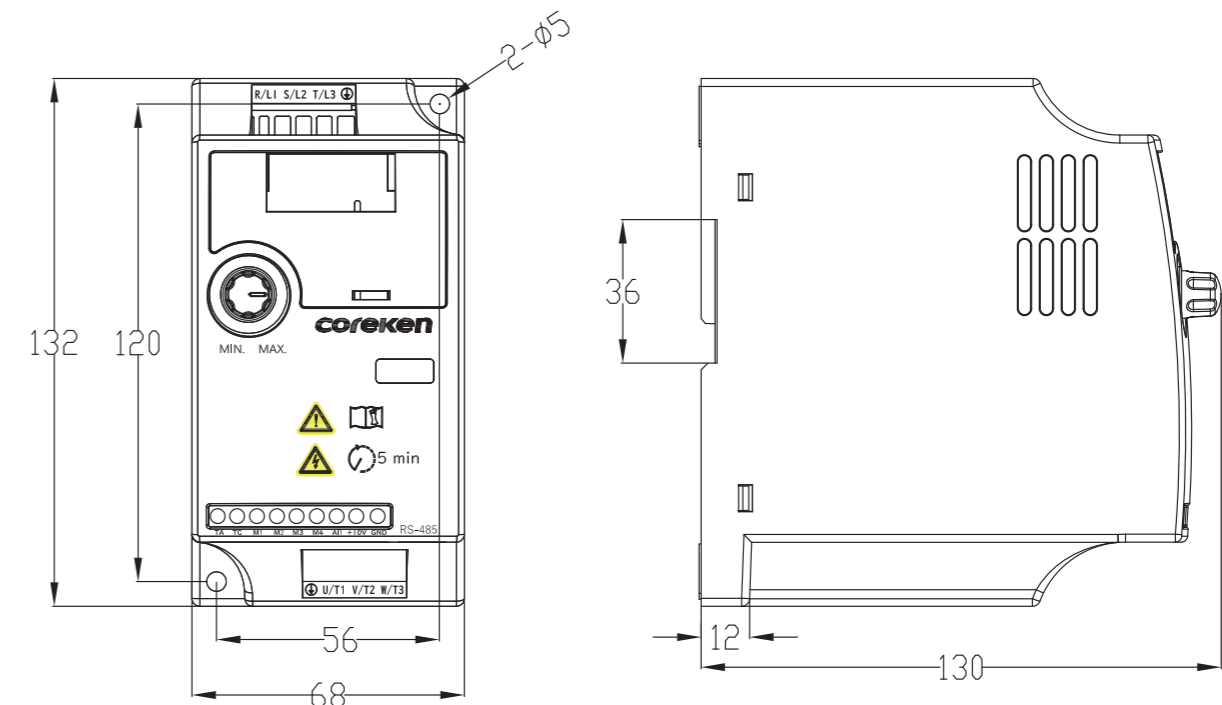
## Product Model Description



## Wiring Diagram



## Appearance and Installation Dimensions



## Industry Applications

Widely applied to conveyor, printing machine, medical and health industrial, food and beverage industrial, simple application machine, commercial and construction machines, portable device, small fan and pump, etc.



Food Machine



Injecting Machine



Logistic Transmit



Small Fan



Textile Machine



Packing Machine

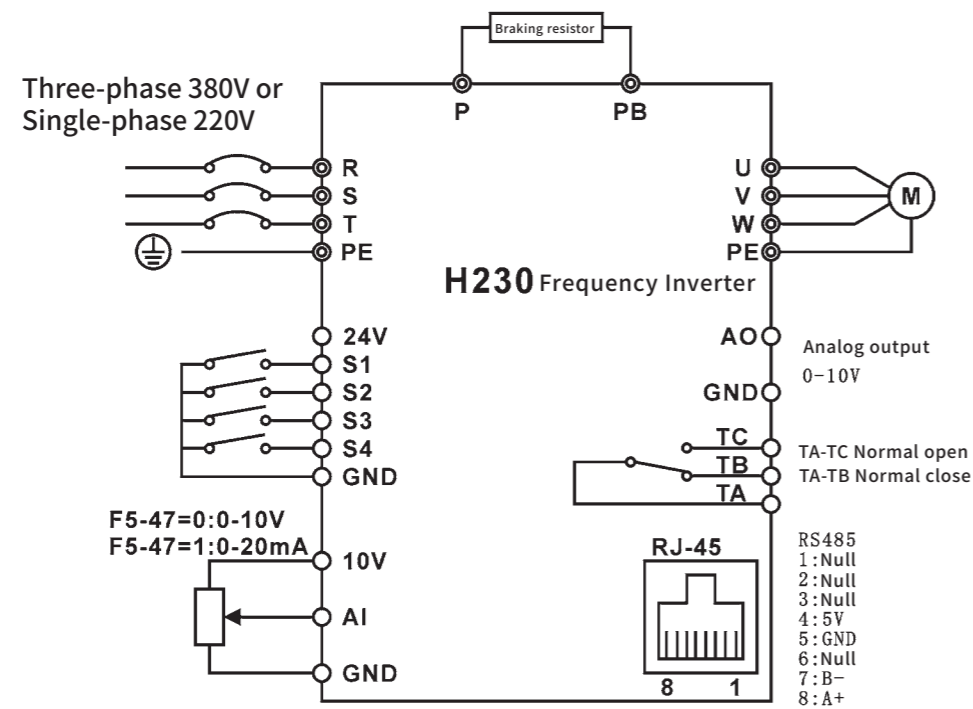
## Product Selection Table

Model	Power Capacity kVA	Input Current A	Output Current A	Adaptable Motor	
				Kw	Hp
Single-phase: 220V, 50/60Hz					
H100S0.75G	1.5	8.2	4.0	0.75	1
H100S1.5G	3.0	14.0	7.0	1.5	2

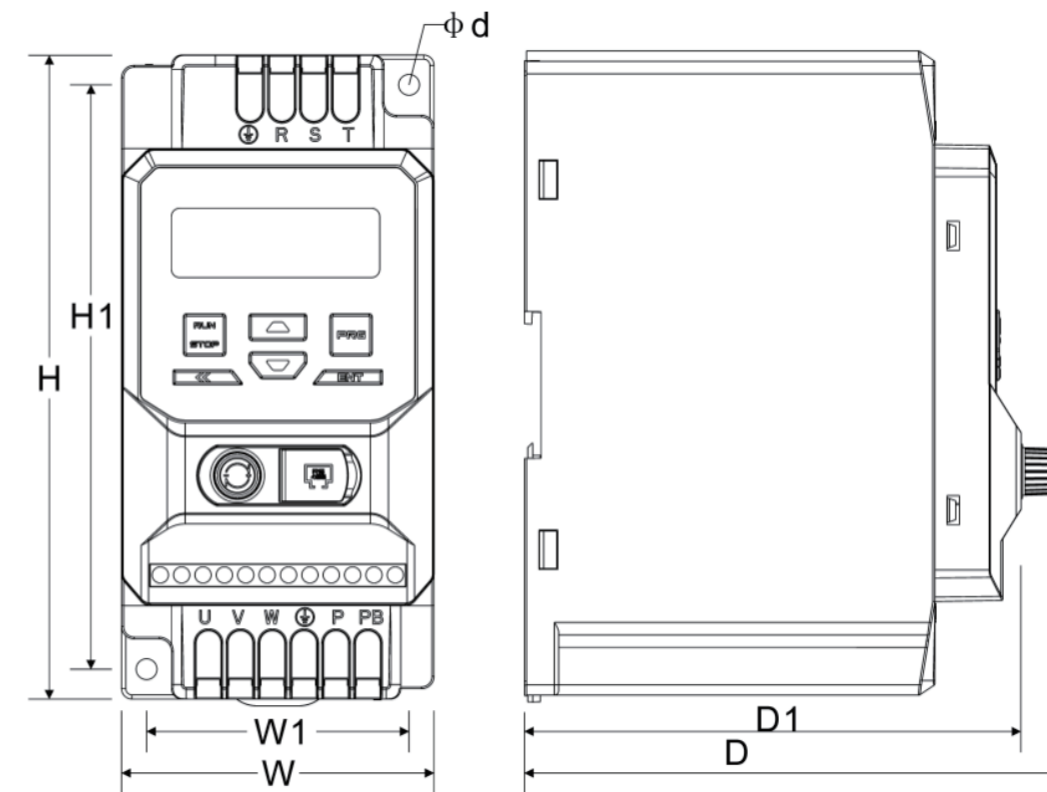
# H230 Series Compact Vector Inverter



## Wiring Diagram



## Installation Size



## Product Selection Table

Model	Power Capacity kVA	Input Current A	Output Current A	Adaptable Motor Kw	Hp
Single-phase:220V, 50/60Hz					
H230-2S0.75GB	1.5	8.2	4.0	0.75	1
H230-2S1.5GB	3.0	14.0	7.0	1.5	2
H230-2S2.2GB	4.0	23.0	9.6	2.2	3
Three-phase: 380V, 50/60Hz					
H230-4T0.75GB	1.5	3.4	2.1	0.75	1
H230-4T1.5GB	3.0	5.0	3.8	1.5	2
H230-4T2.2GB	4.0	5.8	5.1	2.2	3
H230-4T4GB	5.9	10.5	9.0	3.7	5
H230-4T5.5GB	8.9	14.6	13.0	5.5	7.5
H230-4T7.5GB	11.0	20.5	17.0	7.5	10
H230-4T11GB	17.0	26.0	25.0	11.0	15

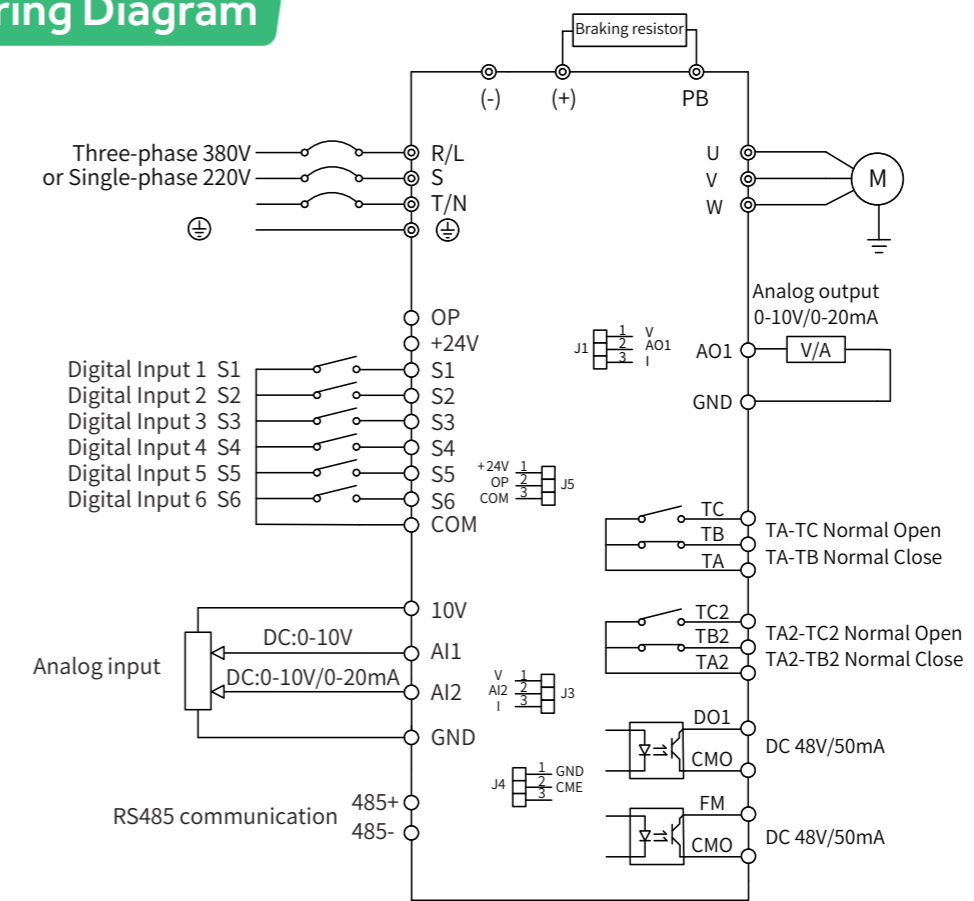
Model	Appearance Dimensions mm				Mounting Hole mm		Mounting Hole Diameter mm
	H	W	D	D1	H1	W1	
H230-2S0.75GB	155	75	128.5	119.2	140.5	63	4
H230-2S1.5GB							
H230-2S2.2GB							
H230-4T0.75GB							
H230-4T1.5GB	193.5	93	143.3	132.5	179.4	79	5
H230-4T2.2GB							
H230-4T4GB							
H230-4T5.5GB	235.8	120	161.2	152	217.6	101.8	6
H230-4T7.5GB							
H230-4T11GB							

# H330 Series

## High Performance Frequency Inverter



### Wiring Diagram



### Technical Specifications

Item	Specification
Maximum frequency	V/F control: 0~1000Hz Vector control: 0~400Hz
Carrier frequency	Carrier frequency 0.5kHz~16kHz; The carrier frequency is automatically adjusted based on the load features.
Input frequency resolution	Digital setting: 0.01Hz Analog setting: maximum frequency × 0.025%
Control mode	Open loop vector control (SVC) V/F control
Startup torque	G type: 0.5Hz/150% (SVC)
Speed range	1:100 (SVC)
Speed ability accuracy	±0.5%(SVC)
Overload capacity	Model G machine: 60s for 150% of the rated current, 1s for 180% of the rated current
Torque boost	Automatic torque boost; manual torque boost by 0.1%~30.0%
V/F curve	Three methods: straight-line V/F curve; Multi-point V/F curve; N-power V/F curve (1.2-power, 1.4-power, 1.6-power, 1.8-power, 2-power)
V/F separation	Two types: complete separation, half separation
Ramp mode	Straight-line ramp S-curve ramp; T-Four groups of acceleration/deceleration time with the range of 0.0-6500.0s

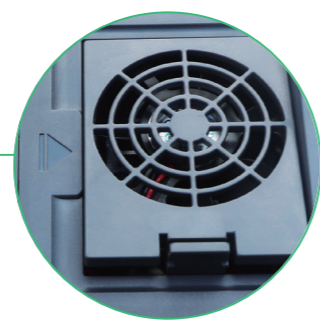
## Product Introduction

- Utilized high quality material(mosfet,igbt) ensure good performance and long service life.
- Build-in braking unit, it can save system cost.
- Upgraded software and full I/O terminal ensure more functions.
- Full power range from 0.75Kw 220V to 600KW 380V.

## Product Features



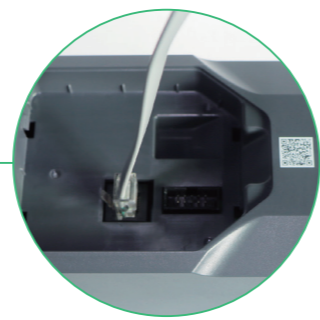
Equipped with double line digital display, compatible visual LCD optional panel design



Independent air duct design, the heat dissipation channel is completely isolated from the interior, suitable for various complex environments



Multi-turn pulse potentiometer, compatible with up and down keys, strong anti-interference ability



Pluggable keyboard adopts dual-interface serial communication design to achieve ultra-long-distance control



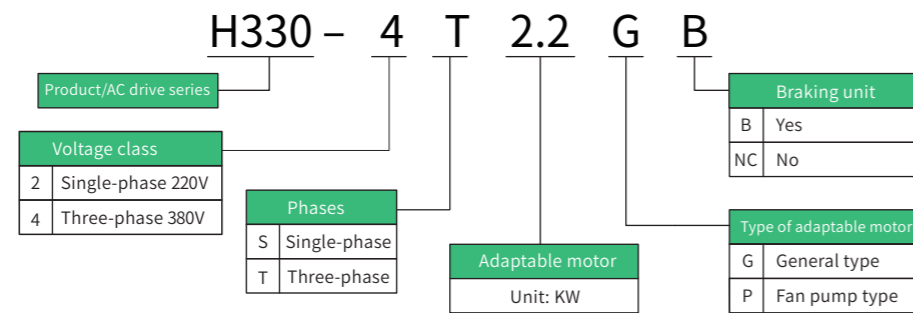
PCB Board utilized high standard coating to ensure the inverter good performance under harsh corrosive environments



Detailed product labeling, including input/output current, voltage and protection class descriptions

Item		Specification
Basic Functions	DC braking	DC braking frequency: 0.00Hz ~ maximum frequency, Braking time: 0.0s ~ 36.0s, Braking action current value: 0.0% ~ 100.0%.
	JOG control	JOG frequency range: 0.00Hz~50.00Hz; JOG acceleration/deceleration time: 0.0s~6500.0s
	Simple PLC, multi-speed operation	It implements up to 16 speeds via the simple PLC function or combination of DI terminal states.
	Onboard PID	It realizes process-controlled closed loop control system easily.
	Auto voltage regulation (AVR)	It can keep constant output voltage automatically when the mains voltages change.
	Overvoltage/Overcurrent stall control	The current and voltage are limited automatically during the running process so as to avoid frequent tripping due to overvoltage/overcurrent.
	Fast current limiting function	Minimize overcurrent obstacles and protect the normal operation of the inverter
Protection functions	Torque Limiting and Control	Automatically limit torque during operation to prevent frequent overcurrent tripping
	Protection functions	power-on motor short circuit detection, input and output phase loss protection, overcurrent protection, overvoltage protection, undervoltage protection, overheating protection, overload protection, etc.
	Power-on peripherals safety self-test	It can realize the safety detection of peripheral equipment such as grounding and short circuit when powered on.
Individualized Features	Common DC bus function	It can realize the function of multiple inverters sharing the DC bus
	MF.K key	Programmable keys: command channel switching/forward and reverse operation/jog operation function selection
	Textile pendulum frequency control	Various triangle wave frequency control functions
	Timing control	Timing control function: set the time range 0h~65535h
Running	Running command channel	Three channels: operation panel, control terminal, serial communication port. You can perform switchover between these sources in various way.
	Frequency source	There are 10 frequency sources: digital given, analog voltage given, analog current given, pulse given, and serial port given. Can be switched in various ways
	Auxiliary frequency source	10 auxiliary frequency sources. Flexible implementation of auxiliary frequency fine-tuning and frequency synthesis
	Input terminal	5 ordinary digital input terminals and 1 high-speed pulse input terminal, up to 100KHz. Compatible with active PNP or NPN input mode. There are two analog input terminals, one of which can only be used as voltage input, and the other can be used as voltage or current input.
	Output terminal	One high-speed pulse output terminal (optional open collector type), 0kHz~100kHz square wave signal output,It can realize the output of physical quantities such as set frequency and output frequency. 1 digital output terminal, 2 relay output terminals, 2 analog output terminals,You can choose 0/4mA~20mA or 0/2V~10V respectively, which can realize the output of physical quantities such as set frequency and output frequency.
Display and keyboard operation	LED display	Double-wire digital tube display parameters
	Coding potentiometer knob	Used for parameter setting addition and subtraction, adjustment of setting frequency
	Copy parameter	Quickly copy parameters via optional operator panel
Environment	Key locking and function selection	It can lock the key partially or completely and define the function range of some keys so as to preserve mis-function.
	Installation location	Indoor, free from direct sunlight,dust,corrosive gas, combustible gas, oil smoke, vapour, drip or salt.
	Altitude	Lower than 1000m
	Ambient temperature	-10°C~+40°C (de-rated if the ambient temperature is between 40°C and 50°C)
	Humidity	Less than 95%RH, without condensing
	Vibration	Less than 5.9m/s <sup>2</sup> (0.6g)
	Storage temperature	-20°C~+60°C

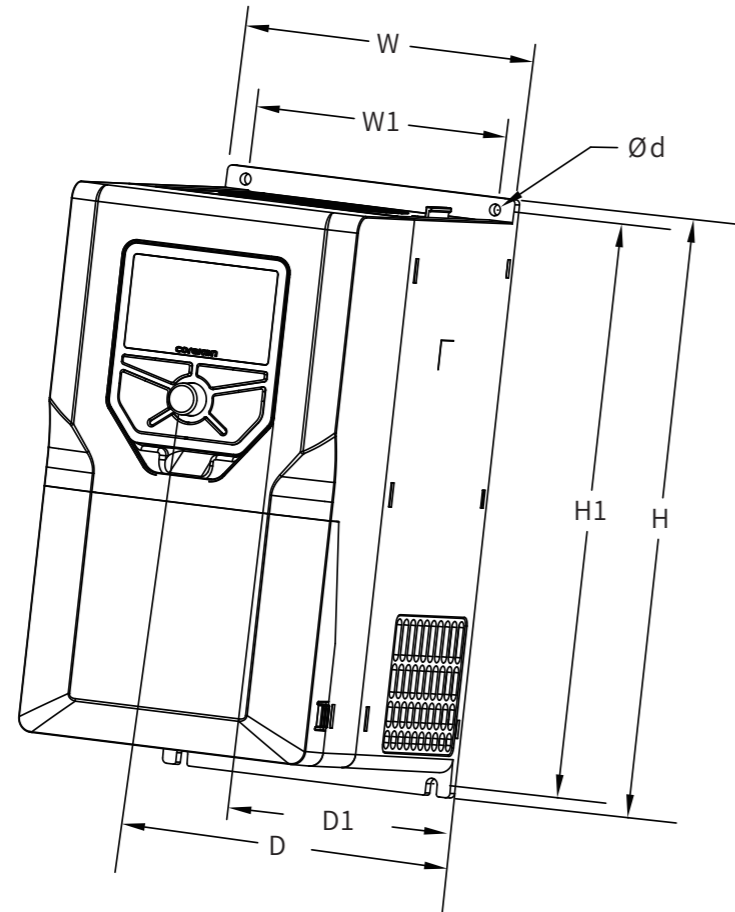
## Product Model Description



Model	Power Capacity kVA	Input Current A	Output Current A	Adaptable Motor	
Single-phase:220V, 50/60Hz					
H330-2S0.75GB	1.5	8.2	4.0	0.75	1
H330-2S1.5GB	3.0	14.0	7.0	1.5	2
H330-2S2.2GB	4.0	23.0	9.6	2.2	3
Three-phase:380V, 50/60Hz					
H330-4T0.75GB	1.5	3.4	2.1	0.75	1
H330-4T1.5GB	3.0	5.0	3.8	1.5	2
H330-4T2.2GB	4.0	5.8	5.1	2.2	3
H330-4T4GB	5.9	10.5	9.0	3.7	5
H330-4T5.5GB-B	8.9	14.6	13.0	5.5	7.5
H330-4T5.5GB	8.9	14.6	13.0	5.5	7.5
H330-4T7.5GB	11.0	20.5	17.0	7.5	10
H330-4T11GB-B	17.0	26.0	25.0	11.0	15
H330-4T11GB	17.0	26.0	25.0	11.0	15
H330-4T15GB	21.0	35.0	32.0	15.0	20
H330-4T18.5GB	24.0	38.5	37.0	18.5	25
H330-4T22GB-B	30.0	46.5	45.0	22	30
H330-4T22GB	30.0	46.5	45.0	22	30
H330-4T30GB	40.0	62.0	60.0	30	40
H330-4T37G	57.0	76.0	75.0	37	50
H330-4T45G-B	69.0	92.0	91.0	45	60
H330-4T45G	69.0	92.0	91.0	45	60
H330-4T55G	85.0	113.0	112.0	55	70
H330-4T75G	114.0	157.0	150.0	75	100
H330-4T90G	134.0	180.0	176.0	90	125
H330-4T110G	160.0	214.0	210.0	110	150
H330-4T132G	192.0	256.0	253.0	132	175
H330-4T160G	231.0	307.0	304.0	160	210
H330-4T185G	240.0	343.0	340.0	185	240
H330-4T200G	250.0	385.0	377.0	200	260
H330-4T220G	280.0	430.0	426.0	220	300
H330-4T250G	355.0	468.0	465.0	250	350
H330-4T280G	396.0	525.0	520.0	280	370
H330-4T315G	445.0	590.0	585.0	315	500
H330-4T355G	500.0	665.0	650.0	355	420
H330-4T400G	565.0	785.0	725.0	400	530

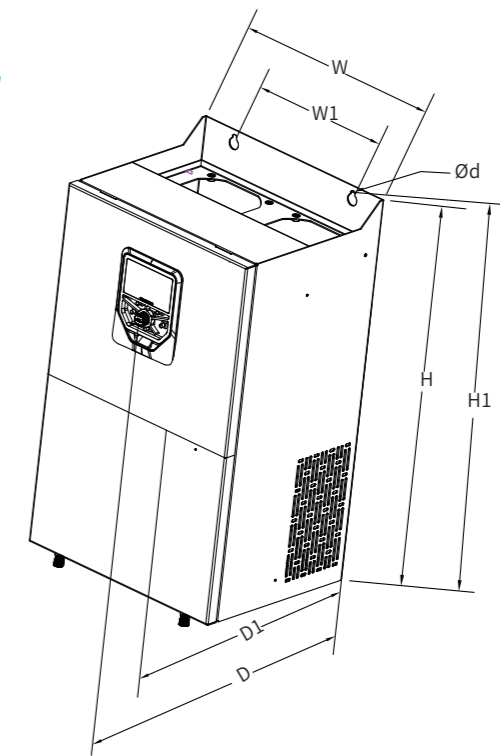


## Appearance and Installation Dimensions



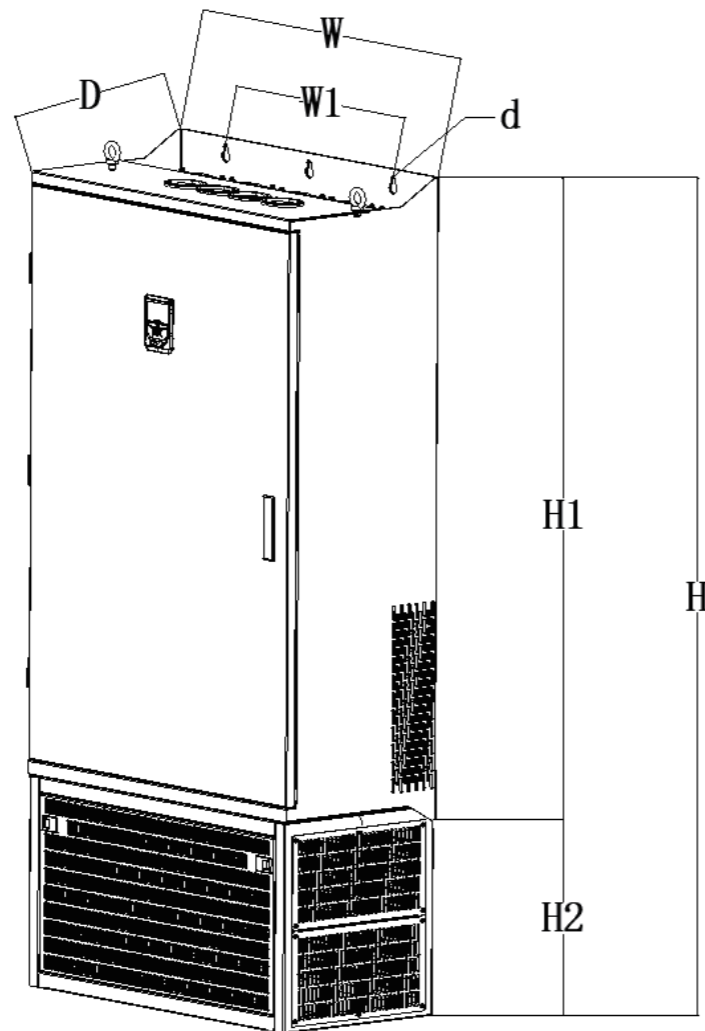
Model	Appearance Dimensions mm				Mounting Hole mm		Mounting Hole Diameter mm	Weight kg
	H	W	D	D1	H1	W1		
H330-2S0.75GB	187	88	140	131	177	73	5	1.4
H330-2S1.5GB								
H330-2S2.2GB								
H330-4T0.75GB								
H330-4T1.5GB	207	100	159	149	197	85	5	1.7
H330-4T2.2GB								
H330-4T4GB								
H330-4T5.5GB								
H330-4T7.5GB	247	130	169	159	238	113	5	2.8
H330-4T11GB								

## Appearance and Installation Dimensions



Model	Appearance Dimensions mm				Mounting Hole mm		Mounting Hole Diameter mm	Weight kg
	H	W	D	D1	H1	W1		
H330-4T11GB	317	153	170	184	305	127	6	6.5
H330-4T15GB								
H330-4T18.5GB	348	182	203	190	331	156	6	8.5
H330-4T22GB								
H330-4T22GB	373	221	203	190	356	156	6	10
H330-4T30GB								
H330-4T37G	435	256	222	207	419	170	6	13.6
H330-4T45G								
H330-4T55G	544	310	276	263	524	241	10	23.2
H330-4T75G								
H330-4T90G	580	358	326	313	559	270	10	38.7
H330-4T110G								
H330-4T132G	803	380	310	305	823	285	10	75.8
H330-4T160G								
H330-4T185G	870	500	355	342	837	320	10	82.2

## Appearance and Installation Dimensions



Model	Appearance Dimensions mm					Mounting Hole mm		Mounting Hole Diameter mm	Weight kg
	H	H2	W	D	D1	H1	W1		
H330-4T200G	950	426	500	348	358	950	380	10	120
H330-4T220G									
H330-4T250G									
H330-4T280G	1570	426	600	408	398	1147	400	12	160
H330-4T315G									
H330-4T355G	1696	426	800	408	398	1266	520	12	225
H330-4T400G									



### Industry application

Widely used in CNC engraving machinery, woodworking machinery, CNC processing, metallurgical equipment, shipbuilding, construction industry, printing machinery, mining machinery, medical and health care, injection molding machinery, air compressors, wire drawing equipment, die-casting equipment, etc.

