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# E6 Series Intelligent Flexible Driver

## Catalogue

VFD | Hotline  
**400-821-0325**



The product information contained in the sample serves as the standard. If there is any change, no prior notice will be given. Please confirm with the sales before placing an order.

202512 EN



## About STEP

Shanghai STEP Electric Co., Ltd., founded in 1995, is a nationally supported high-tech enterprise and a nationally innovative enterprise. It was listed on the Shenzhen Stock Exchange's A-share market in 2010 (stock abbreviation: STEP, stock code: 002527). The company is a member of the National Elevator Standardization Technical Committee, a member of the National Robot Standardization Overall Group, Vice Chairman of the China Robot Industry Alliance, Vice Chairman of the Shanghai Robot Industry Association, Vice Chairman of the Shanghai Intelligent Manufacturing Industry Association, and a designated Intelligent Manufacturing Demonstration Unit by the Ministry of Industry and Information Technology.

With motion control technology at its core, STEP specializes in products such as smart elevators, servo drives, variable frequency speed regulation, robotics, and industrial controllers. We develop digitalization and intelligence, providing customers with high-quality integrated smart manufacturing solutions.

STEP's products and solutions are widely used in industries and sectors including elevators, smart water services, HVAC, rubber and plastics, port cranes, shipbuilding, mining, logistics, engineering machinery, general energy conservation, 3C electronics, lithium batteries, semiconductors, photovoltaics, food and beverages, medical care, automotive, dispensing, lasers, machine tools, metal products, chemicals, furniture, and steel structures, serving over 110 countries and regions worldwide.

STEP focuses on research and development, with R&D centers in Shanghai, Shenzhen, Xi'an, Hangzhou, and Germany. We also have a postdoctoral research workstation and a CNAS-accredited technical center laboratory. We have participated in the development and revision of numerous national and industry technical standards. To date, we have obtained over 1,100 national patents, invention patents, and software copyrights."

Based in Shanghai, STEP is developing a globalization strategy, with over 20 subsidiaries both domestically and internationally, including STEP Robotics, STEP Intelligent Technology, Sigriner STEP Motors, STEP Industrial Control Technology, Anhui STEP Cable, Yixin (Shanghai) International Trading, Shenzhen Zhongweixing, Hong Kong International STEP, STEP Electric Germany, and Sigriner Automation Malaysia (joint venture). The company plans to establish more global businesses in the future to continuously expand into the global market.

In June 2025, Haier Group made a strategic investment in Shanghai STEP Electric Co., Ltd., and STEP officially became a member of Haier's KAAS Industrial Internet ecosystem.

STEP and its subsidiaries will leverage Haier Coax's advanced management model and mature digital operation system to improve asset management efficiency, enhance supply chain capabilities, enhance core technology barriers, strengthen industrial synergy, seize overall market development opportunities, accelerate their development into a world-class industrial automation and industrial robotics company, and usher in a new era of STEP 2.0.

Our mission: To enable humanity to share the convenience and happiness of an intelligent society.

Our vision: To become a renowned international brand in intelligent manufacturing.

Our core values: Customer-centric, striving for excellence, teamwork, courage to act, and innovation.

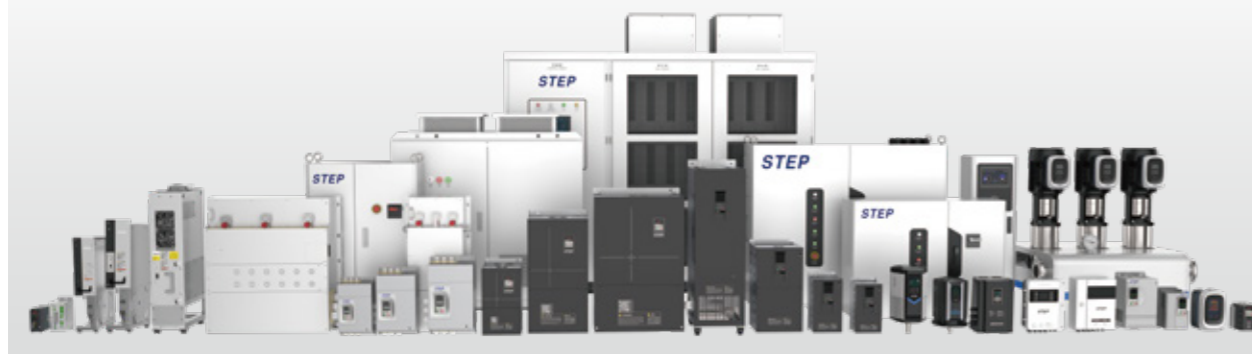
## Variable Frequency Drive Business

### Leading brand in China's VFD application segments

Continuously leading the fan and water pump, HVAC, and logistics and warehousing industries

A trusted international brand of variable frequency drive for open and internal mixers in the rubber tire industry

Widely used in lifting machinery, marine and offshore engineering, mining, and general energy conservation industries



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# New Generation High-Performance Driver

## A NEW GENERATION OF HIGH-PERFORMANCE DRIVER E6 SERIES

A versatile product, meeting the strict requirements for an excellent driver

As the latest generation of driver products developed by STEP targeting the current market characteristics and demands, E6 is a versatile driver product suitable for the drive link of industrial production and inherits the latest generation of design concepts to be simplified, which can effectively improve your production efficiency.

■ TYPICAL INDUSTRY



01

Developed based on the latest market characteristics and demands

02

Versatile driver product

03

All-round simplification to improve production efficiency



# Performance Characteristics

Intelligent  
Efficient  
Reliable  
Full-featured  
Easy to use



## INTELLIGENT

### 01. E6 series integrated intelligent algorithm

It can automatically sense the driver machinery and system and realize sensorless operation, without manual setting. Only simple motor parameters are required to drive the load perfectly. In addition to ordinary asynchronous motors, it is also suitable for permanent magnet synchronous motors and synchronous reluctance motors.

### 02. Intelligent diagnostic capability

### 03. Intelligent commissioning guidance

Follow the prompts to easily complete the settings.

### 04. Intelligent multi-terminal interconnection

## FLEXIBLE - WIDELY APPLICABLE

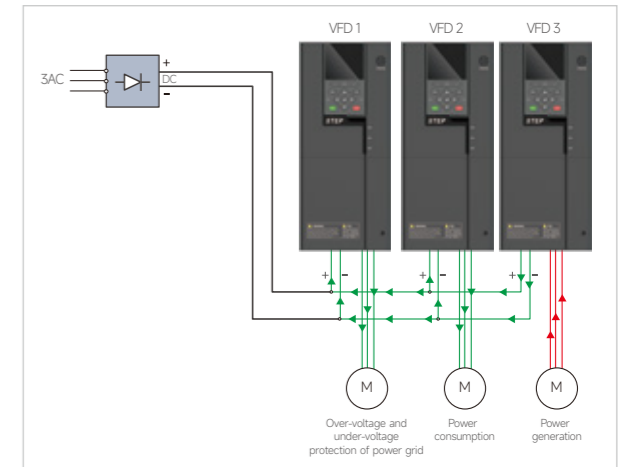
### 01. Adaptation to different power grid environments

Strong power grid adaptability and automatic voltage adjustment function can easily cope with power grid voltage fluctuations. The output voltage can also be automatically kept constant when the power grid voltage changes, and a unique power loss ride through function is provided.



### 03. Adapting to different application environments

The multi-driver common DC bus scheme can be conveniently realized without additional pre-charging circuit. The inverter energy can be transmitted in two directions, and the driver is completely controllable to realize simple and convenient multi-driver.



### 02. Quick adaptation to customer differentiation



Asynchronous motor Permanent magnet synchronous motor



Ultra-high speed motor Reluctance motor Servo motor

### 04. Rapid adaptation to different industry applications

The diversified industry option cards enable the driver to fit into the industry perfectly to cater to the needs of different industries.



Elevator



Food & beverages Water treatment Plastic

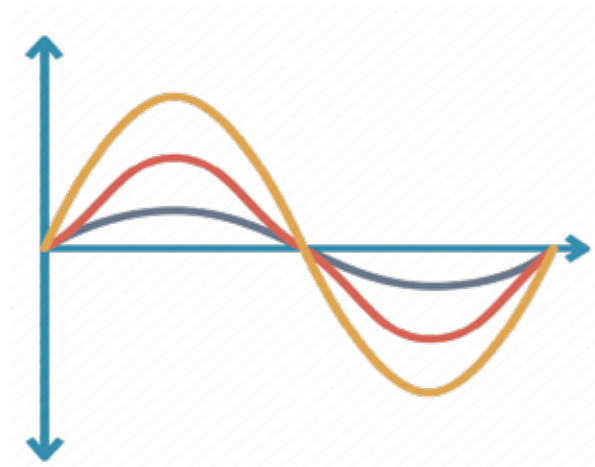


Machine tool Textile Fine chemicals .....

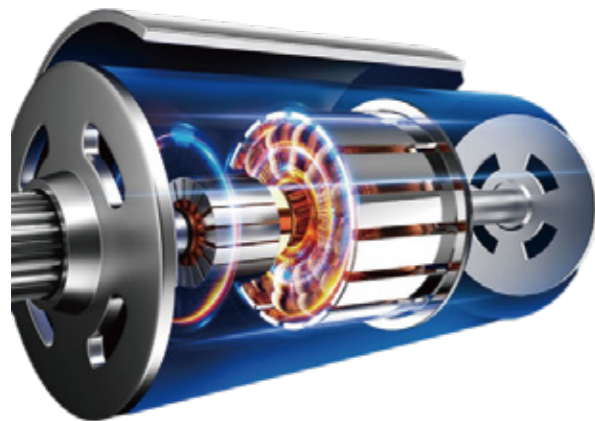
## FLEXIBLE - HIGH PERFORMANCE

### 01. Corresponding to high-speed motor applications and strict silencing applications

High carrier frequency design supports up to 16kHz carrier, effectively suppressing electromagnetic noise.



Maximum output frequency is up to 1kHz. Advanced software algorithms are used to reconstruct motor models, so as to drive high-speed motors more stably and safely.



### 02. Strong adaptability to ambient temperature

Heavy load rated application supports ambient temperature of -10°C~+50°C and maximum temperature of 60°C.



### 03. Multiple control algorithms

GVC control -40°C to 70°C	Sensorless vector control The speed regulation range is wide and the starting torque is large	Sensor torque control Very high response speed
Sensor vector control High control precision High low-frequency torque	Voltage and current source As a power supply, voltage and current are directly output	

## EASY TO USE

### 01. High power density, thin design

Taking 30kW as an example, it is about 40% smaller than the previous frequency converter, which can make the design of the control cabinet more compact, strengthen the redundancy of the design of the electric cabinet, save the space in the cabinet and reduce the price of the complete set.



smaller than the previous frequency converter

**40%**

C2 and C3 filtering standards can be reached for the standard products applied in the global market. Both ordinary pulse encoders and sine-cosine and other encoders are supported, with frequency division function, integrated soft PLC, simple secondary development, and extended PLC function.

The flanged installation is supported, adapting to more severe environment and achieving higher protection level.



### 02. Graphical display interface

Configuration is set with wizard, and comprehensive upper computer auxiliary software can read and write data, convenient for quick debugging and waveform monitoring. Built-in memory card has the "black box" function, recording operation data and fault information, with Type-C interface, to achieve more efficient data reading.

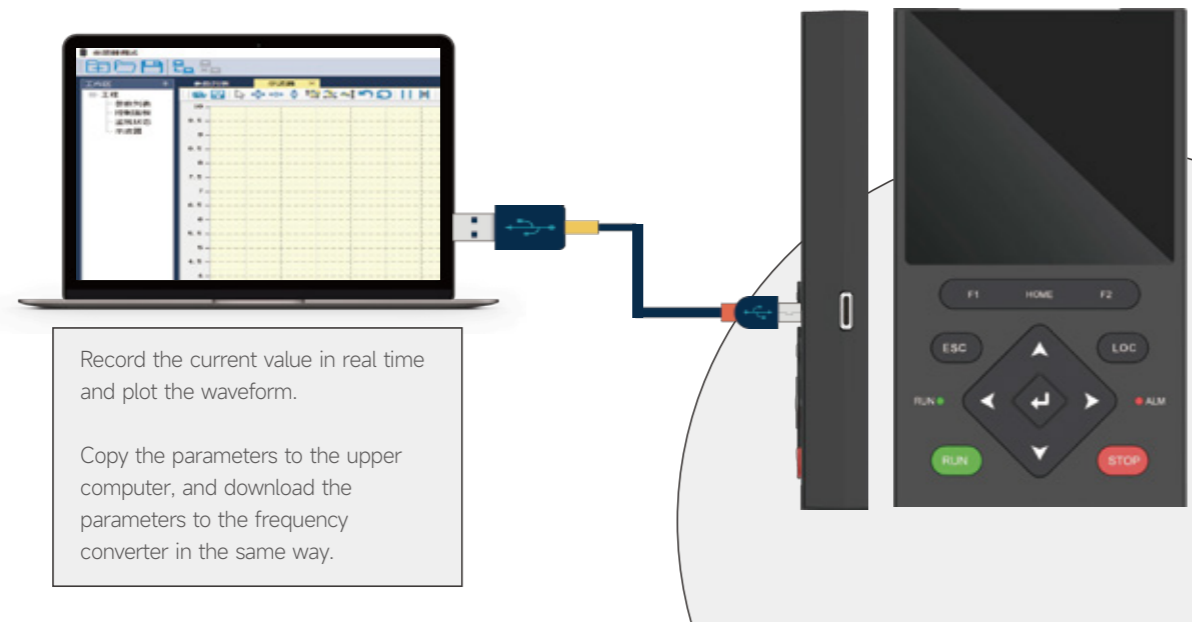


### 03. Easy maintenance

The fan is easy to be removed, improving maintenance efficiency, and the fan can be maintained quickly even during operation.



#### 04. Parameters can be copied



Record the current value in real time and plot the waveform.

Copy the parameters to the upper computer, and download the parameters to the frequency converter in the same way.

#### 05. Application macros

Simple and easy-to-use application macro

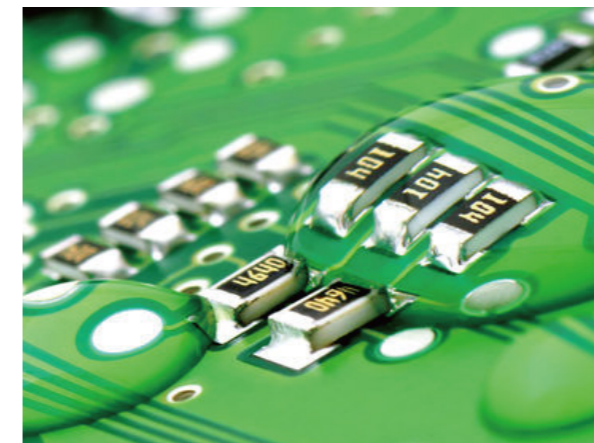
- Corresponding application macros are formulated according to different production processes and different loads. More convenient to use
- Storing the application macro-related data in the CAN operator;
- Support up to 50 application macros and 4 special macros for the water industry

索引	功能码	参数名	参数值	小数点
1	Version	V1.08.01		
2	索引	功能码	参数名	参数值
3	2000H	P00.00	密码登录	0
4	2001H	P00.01	密码修改	0
5	2002H	P00.02	备用	0
6	2080H	P10.00	控制模式选择	4
7	2081H	P10.01	运转模式选择	0
8	2082H	P10.02	命令通道选择	2
9	2083H	P10.03	速度通道选择1	12
10	2084H	P10.04	转矩通道选择	0
11	2085H	P10.05	补偿转矩选择	0
12	2086H	P10.06	速度限制选择	0
13	2087H	P10.07	速度通道选择2	0
14	2088H	P10.08	应用宏	0
15	2100H	P11.00	启动模式选择	0
16	2101H	P11.01	启动保持频率 (Hz)	0
17	2102H	P11.02	启动频率保持时间 (s)	0
18	2103H	P11.03	启动直流注入电流 (%)	300
19	2104H	P11.04	启动直流注入时间 (s)	50
20	2105H	P11.05	扇刷时间 (s)	3

## SAFE & RELIABLE

#### 01. Efficient protection PCBA

Standard products are equipped with reinforced PCBA protection layers to effectively suppress the erosion of high dust and high salt spray environment on products. With long-life devices, elaborate design and high-precision manufacturing process, the service life of equipment can be effectively prolonged and accidental shutdown can be reduced.



#### 03. Efficient thermal management system

Unique thermal management system isolates the contact of electronic components with forced cooling air, prevents dust and particles from adhering and accumulating on small internal components and pins, and reduces the risk of downtime. Large air volume design ensures heat dissipation effect.

#### 04. EMC certification

Compliance with EMC specifications

EN61800-5-1: 2007: Adjustable speed electrical powerdrive systems -Part 5-1: Safety requirements -Electrical, thermal and energy

EN12015.1998 Electromagnetic compatibility-Product family standard for lifts, escalators and passenger conveyors-Emission.

EN12016.2004 Electromagnetic compatibility-Product family standard for lifts, escalators and passenger conveyors-Immunity.

EN61800-3:2004: Adjustable speed electrical power drive systems - Part 3



#### 02. Life warning of key components

An internal integrated running timer automatically prompts maintenance items to ensure reliable operation.

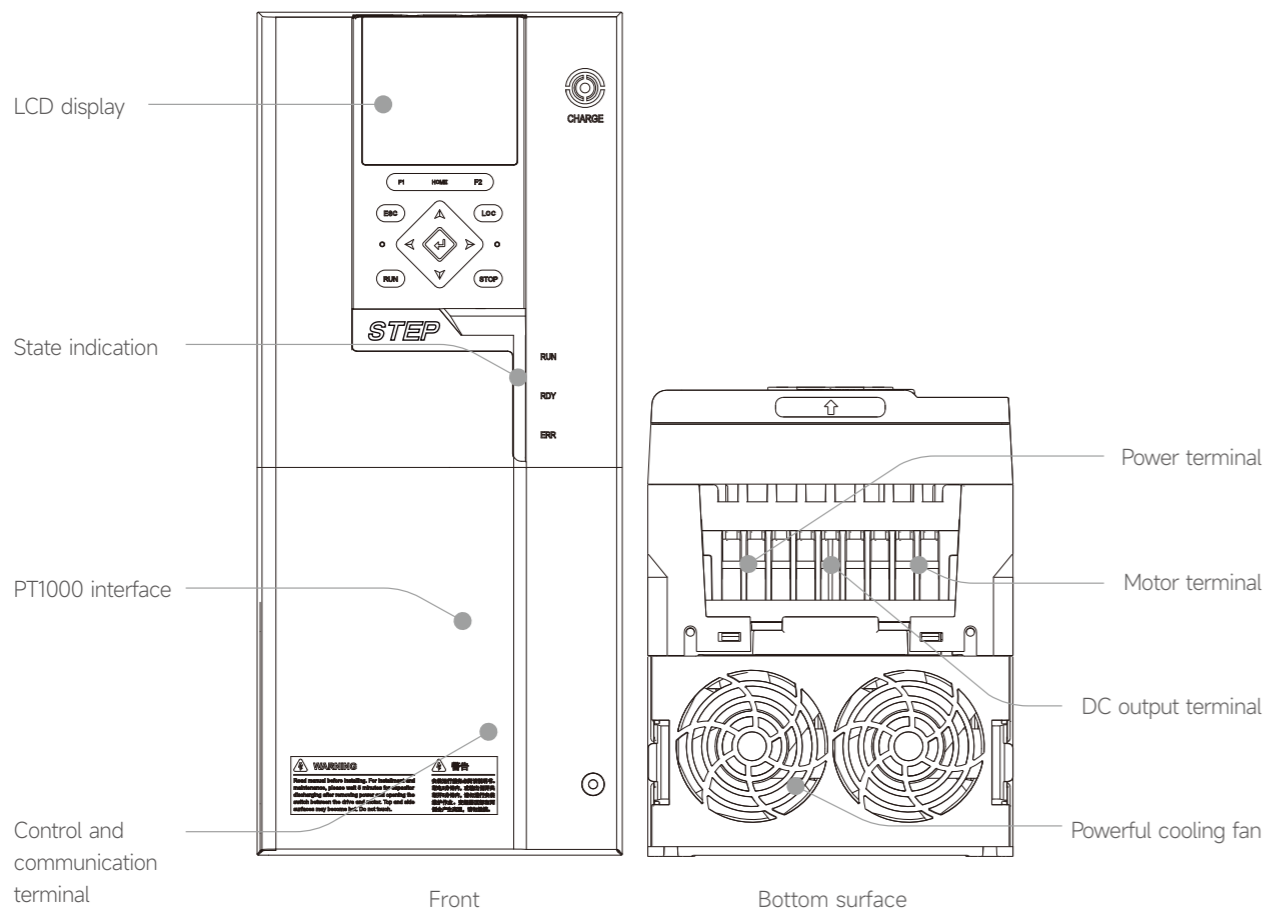
#### 05. All-round protection



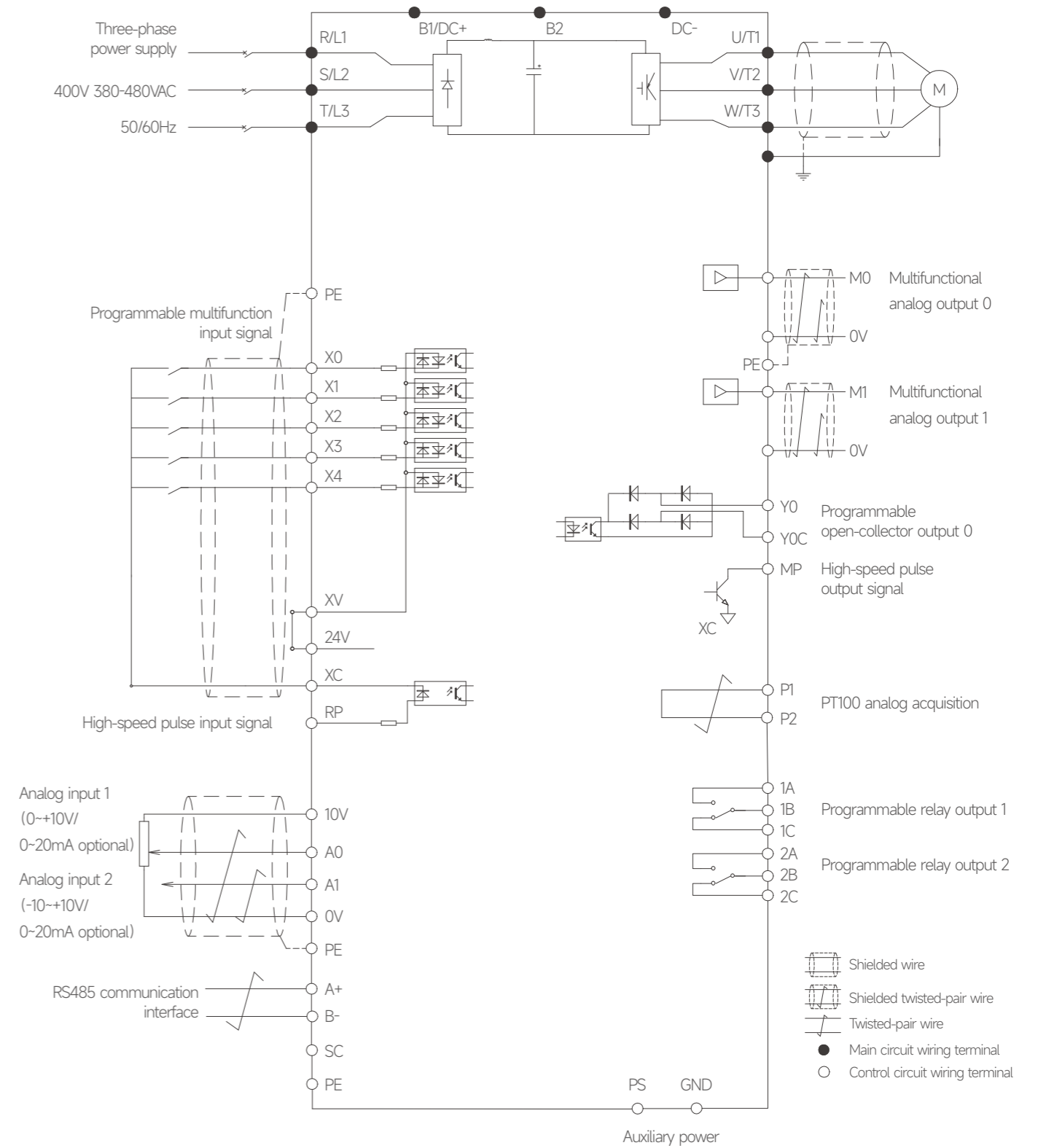


# Interface

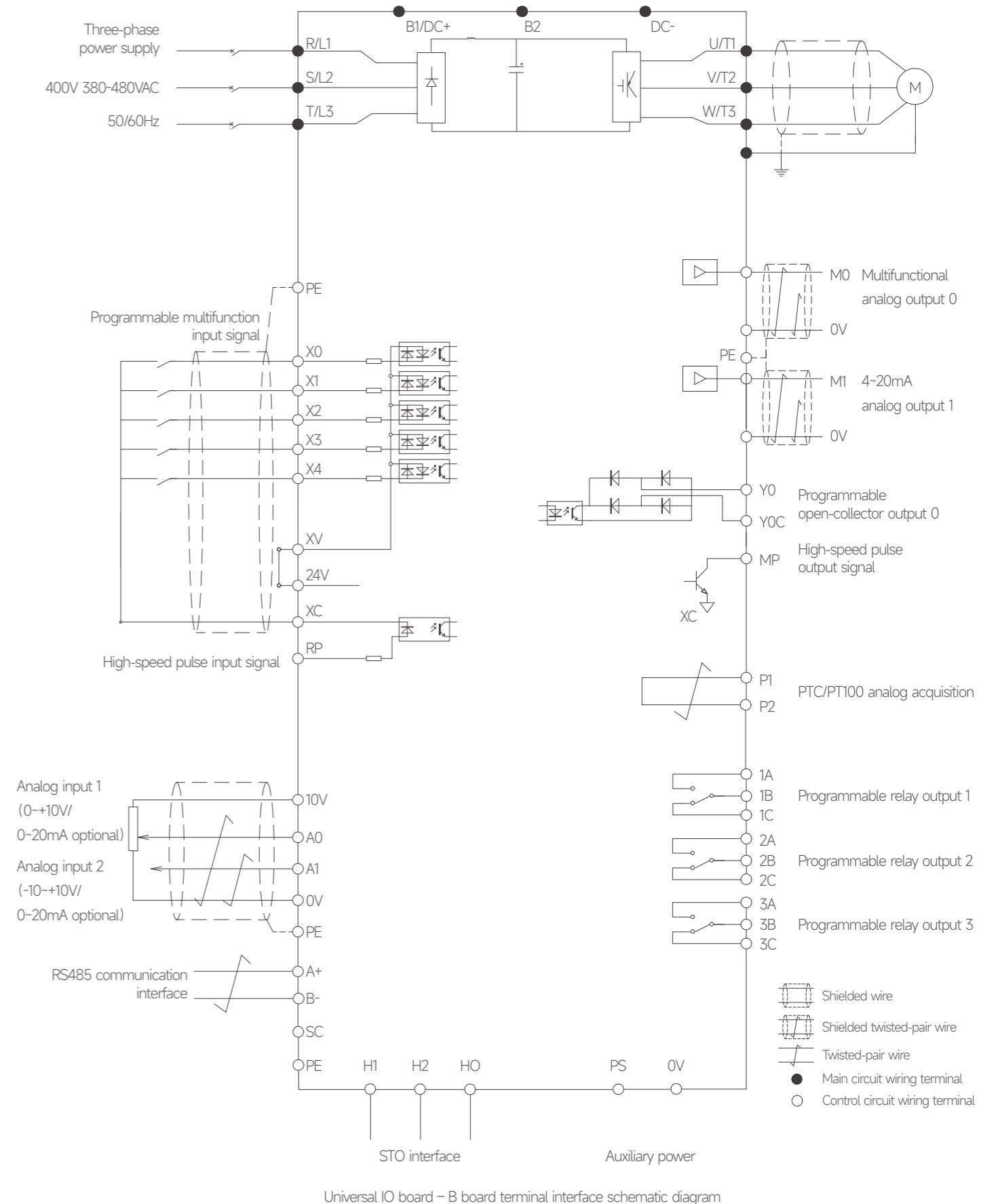
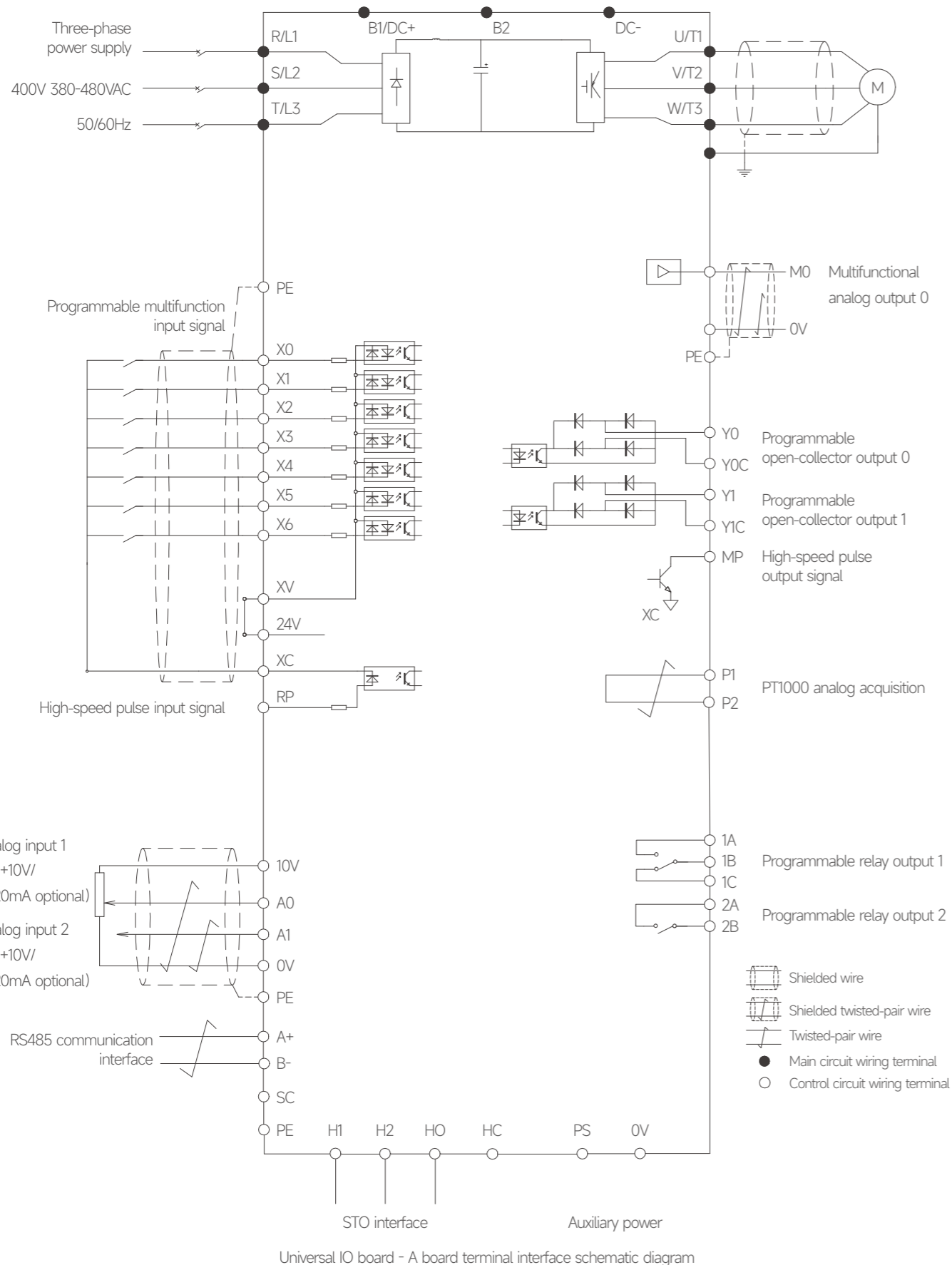
## PHYSICAL INTERFACE



## STANDARD INTERFACE



Universal IO board - Standard Edition IO Board terminal interface schematic diagram



# Technology Specification



## MAIN POWER

Item	Parameters
Supply voltage	380~480Vac (-15%~+10%)
Allowable voltage unbalance	< 3%
Power supply frequency	50/60Hz ±5%
Displacement power factor	> 0.98
Harmonic interference	Comply with EN61800-3 and EN12015

## OUTPUT DATA

Item	Parameters
Output voltage	0-100% supply voltage
Output frequency	0-600Hz
Overload performance	Light load application 110%, 1min; heavy load application 150%, 1min; allowable overload frequency 1min/10min
Maximum efficiency	≥96%-99%

## CONTROL PERFORMANCE

Item	Parameters
Control mode	High-performance scalar, open-loop vector, closed-loop vector
Starting torque	150%, 3Hz; 150%, 3Hz; 200%, 0Hz
Carrier frequency	1.5-16kHz, carrier can be automatically adjusted according to the load
AVR technology	Automatic regulation under bus voltage fluctuation to stabilize output voltage
Frequency resolution	0.01Hz
Operation mode	Speed mode, torque mode, position mode
Command channel	Panel, control terminal, communication
Speed channel	Panel, digital quantity, analog quantity, communication, pulse, internal calculation

## INPUT AND OUTPUT CAPACITY

Item	A board	B board / Standard board
Programmable digital input	7 channels, maximum load current 100mA	5 channels, maximum load current 100mA
High-speed pulse input signal	1 channel, 0-33kHz	1 channel, 0-33kHz
Analog input	2 channels, 0-10V or 0 (4) -20mA	2 channels. 1 channel 0-10V or 4-20mA; 1 channel -10V-10V or 0~20mA
Programmable digital output	2 channels, maximum drive capacity 20mA	1 channel, maximum drive capacity 20mA
High-speed pulse output	1 channel, 0-33kHz	1 channel, 0-33kHz
Programmable relay output	2 channels, 8A AC/DC	3 channels / 2 channels
Analog output	1 channel, <20mA	2 channels. 1 channel 0-10V/0-20mA; 1 channel 0-20mA
Motor temperature protection	1 channel, PT1000, settable protection point	1 channel, PT100 or PTC
Default communication interface	Standard RS485 Modbus; optional PN communication, isolated CAN, isolated RS485 communication	
24V auxiliary power supply	2 channels, <600mA	

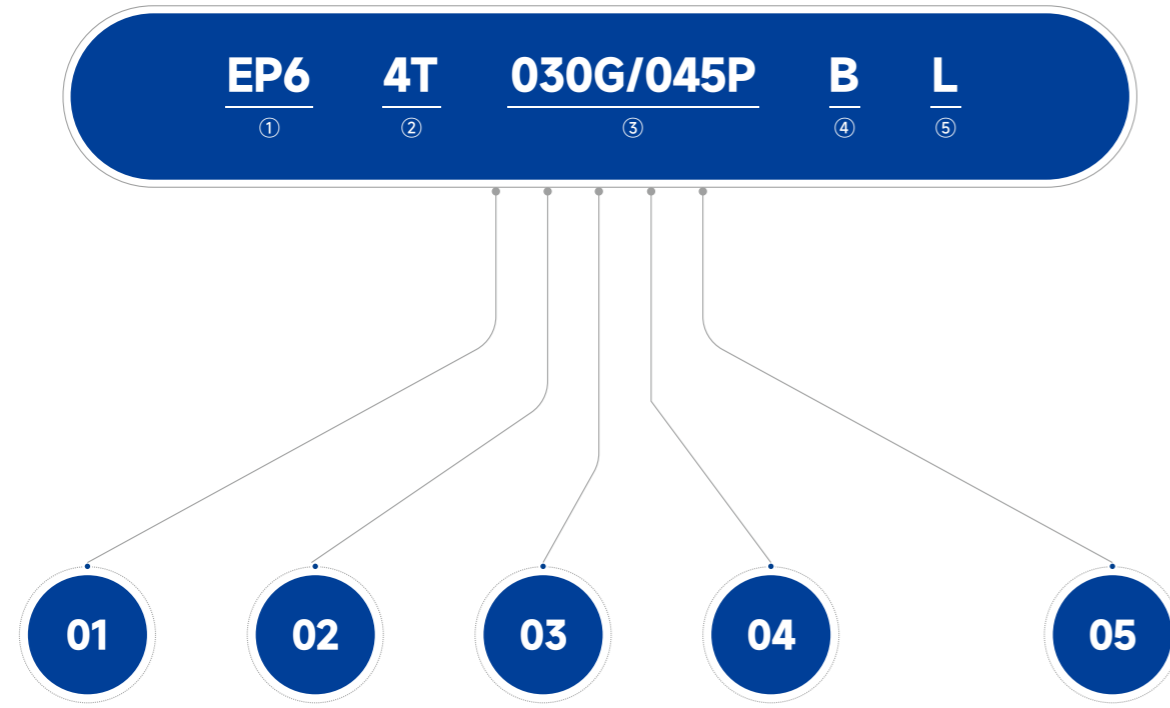
## ENVIRONMENT

Item	Parameters
Protection grade	IP20
Vibration test	1.5g
Rated operating ambient temperature	Heavy load -10°C~+50°C, light load -10°C~+40°C
High temperature derating	After exceeding the upper limit of rated temperature, the rated output current will be reduced by 1% for every 1°C increase, the maximum temperature under heavy load is 60°C, and the maximum temperature under light load is 50°C.
Altitude	<1000m
High-altitude derating	In case of over 1000m, 1% current reduction for every 100m rise, up to 2000m
Ambient humidity	Absolute humidity: 5-95%, no condensation
Storage temperature	-40°C to 70°C

## CONTROL PANEL

Item	Parameters
Type	Movable
Cable length	1m, max. 3m
Port type	RJ45
Display content	8 lines, each line can display 17 words
Visual LED light	2 Nr.

# Model & Product List



Product series	Voltage level	Power	Inverter type	Integrated Accessories
EH6: Standard driver EP6: Vector driver	2S: Single-phase 220V 2T: Three-phase 220V 4T: Three-phase 380V 6T: Three-phase 690V	37kW 45kW	G: Heavy load P: Light load	B: With Braking Unit L: With DC Reactor BL: With Braking Unit and DC Reactor (B): The built-in braking unit is optional

## CONFIGURATION TABLE

Item	Light and heavy load calibration	Filter level	DC reactor <sup>*1</sup>	Input and output reactors	Brake unit <sup>*2</sup>	Handheld controller
EP	Heavy/light load	Optional	Optional	Optional	Optional	LCD high-configuration
EH	Light load	Optional	Optional	Optional	Optional	LCD high-configuration

Remarks:  
DC reactor<sup>\*1</sup>: standard configuration for EP/EH series heavy load 22/light load 30kW and above.

Brake unit<sup>\*2</sup>: ≤75kW built-in; ≥90kW external.  
EP series, ≤ heavy load 30/light load 37kW standard configuration, ≥ heavy load 37/light load 45kW optional, standard configuration is not provided;  
≤ heavy load 75/light load 90kW built-in; ≥ heavy load 90/light load 110kW external.  
EH series, optional for the whole series, standard configuration is not provided; ≤ light load 90kW built-in; ≥ light load 110kW external."

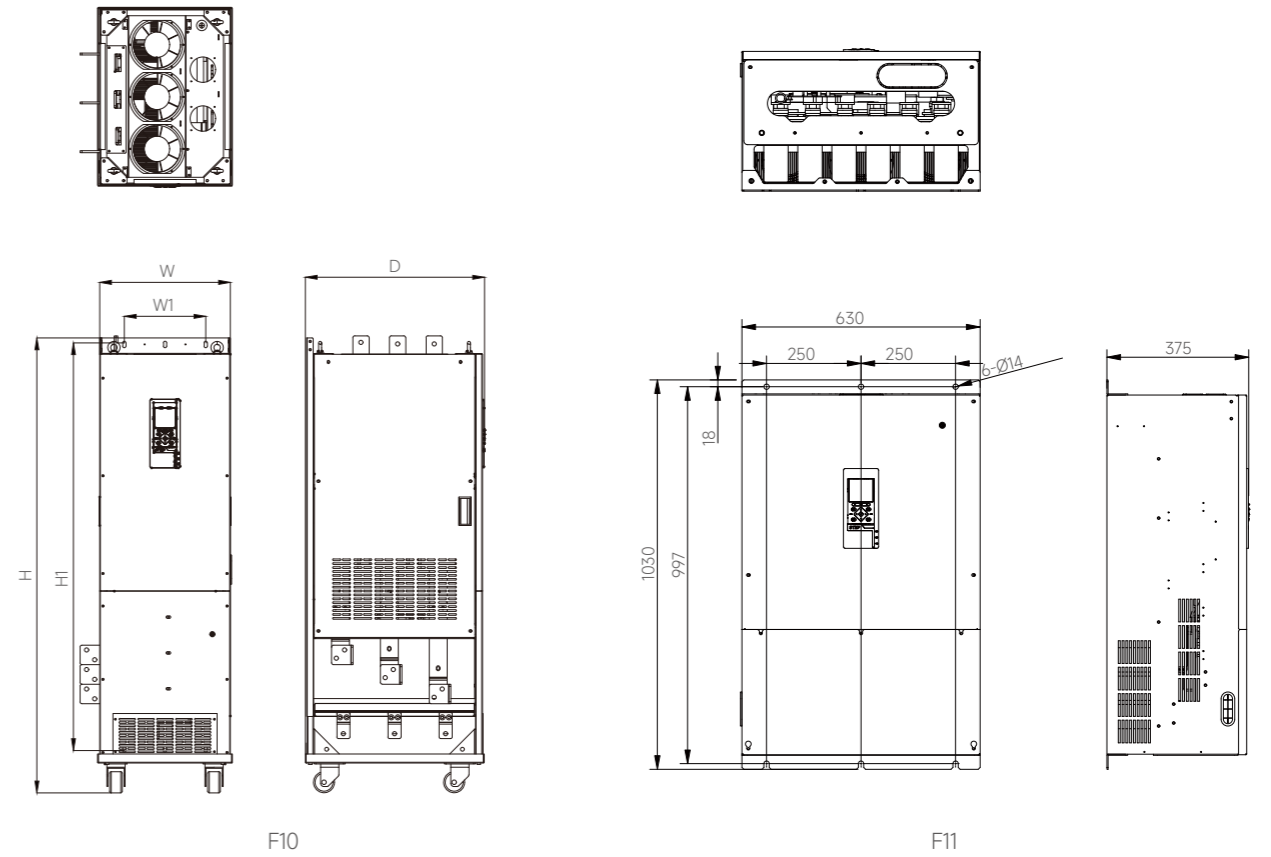
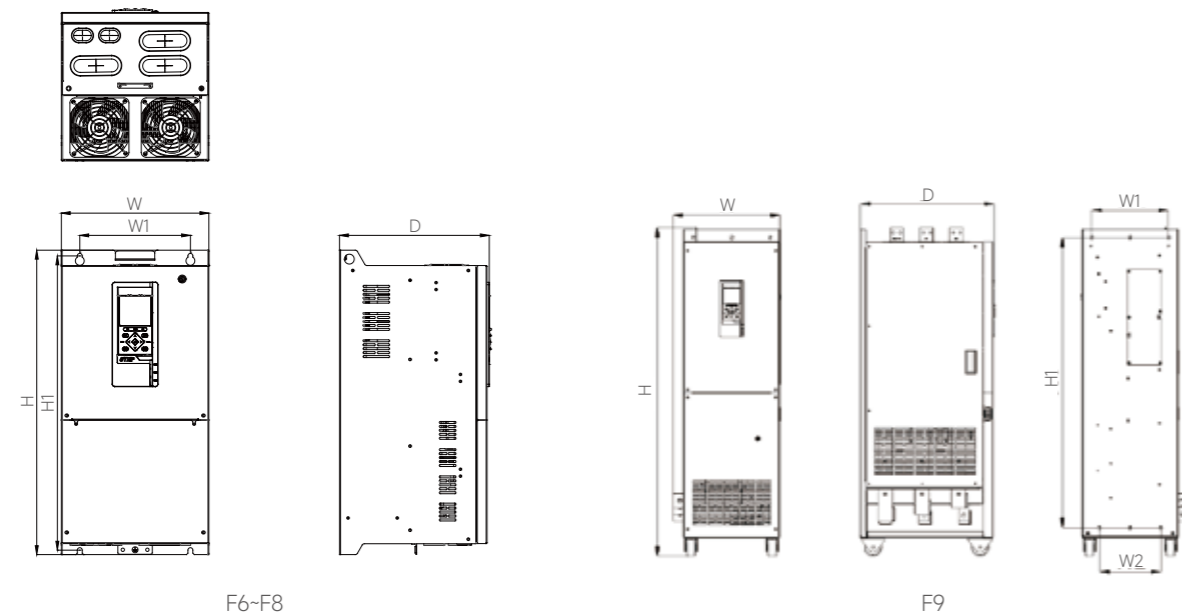
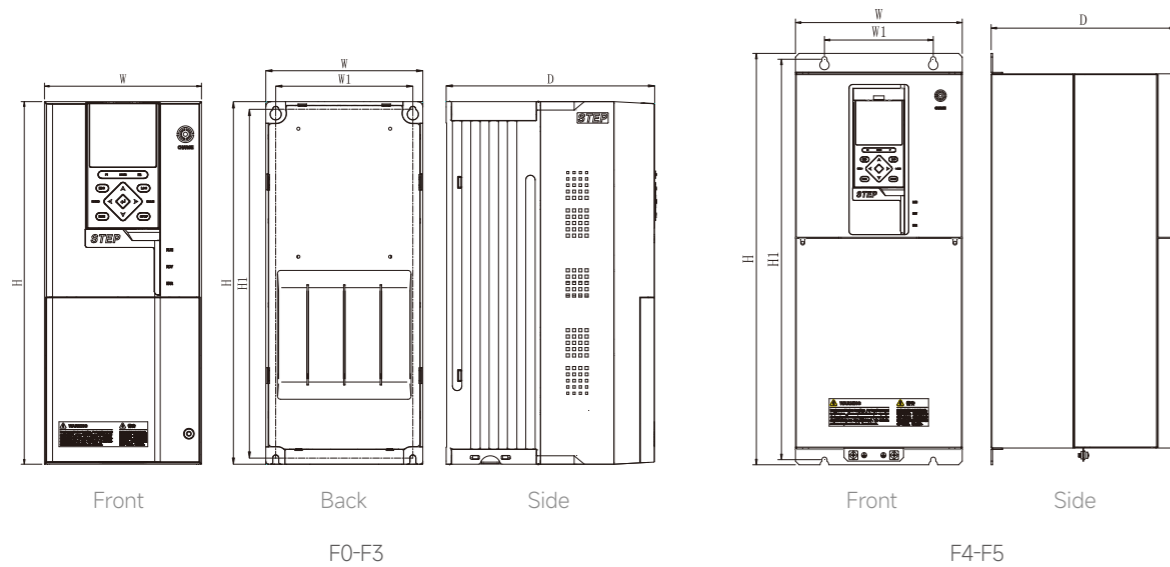
## PRODUCT LIST

Power body	Standard model of EH6 series	Light load application		Power body	Standard model of EH6 series	Light load application	
		Rated power kW	Rated output current (A)			Rated power kW	Rated output current (A)
F0	EH6 4T1R5P (B)	1.5	4.1	F6	EH6 4T075P (B) L	75	140
	EH6 4T2R2P (B)	2.2	5.6		EH6 4T090P (B) L	90	168
	EH6 4T003P (B)	3	7.2	F7	EH6 4T110PL	110	208
	EH6 4T004P (B)	4	9.4		EH6 4T132PL	132	250
	EH6 4T5R5P (B)	5.5	11.9	F8	EH6 4T160PL	160	304
EH6 4T7R5P (B)	7.5	18	EH6 4T200PL		200	377	
F1	EH6 4T011P (B)	11	23	F9	EH6 4T220PL	220	414
	EH6 4T015P (B)	15	31		EH6 4T250PL	250	477
F2	EH6 4T018P (B)	18.5	39	F10	EH6 4T280PL	280	520
	EH6 4T022P (B)	22	45		EH6 4T315PL	315	605
F3	EH6 4T030P (B) L	30	60	F11	EH6 4T355PL	355	675
	EH6 4T037P (B) L	37	75		EH6 4T400PL	400	725
F4	EH6 4T045P (B) L	45	89				
	EH6 4T055P (B) L	55	103				

Power body	Standard model of EP6 series	Light load application		Heavy load application	
		Rated power kW	Rated output current (A)	Rated power kW	Rated output current (A)
F0	EP6 4T1R1G/1R5PB	1.5	4.1	1.1	3.1
	EP6 4T1R5G/2R2PB	2.2	5.6	1.5	4.1
	EP6 4T2R2G/003PB	3	7.2	2.2	5.6
	EP6 4T003G/004PB	4	9.4	3	7.2
	EP6 4T004G/5R5PB	5.5	11.9	4	9.4
F1	EP6 4T5R5G/7R5PB	7.5	18	5.5	14.8
	EP6 4T7R5G/011PB	11	23	7.5	18
F2	EP6 4T011G/015PB	15	31	11	23
	EP6 4T015G/018PB	18.5	39	15	31
F3	EP6 4T018G/022PB	22	45	18.5	39
	EP6 4T022G/030PBL	30	60	22	45
F4	EP6 4T030G/037PBL	37	75	30	60
	EP6 4T037G/045P (B) L	45	89	37	75
F5	EP6 4T045G/055P (B) L	55	103	45	91
	EP6 4T055G/075P (B) L	75	140	55	112
F6	EP6 4T075G/090P (B) L	90	168	75	150
	EP6 4T090G/110PL	110	208	90	180
F7	EP6 4T110G/132PL	132	250	110	216
	EP6 4T132G/160PL	160	304	132	260
F8	EP6 4T160G/200PL	200	377	160	304

Power body	Standard model of EP6 series	Light load application		Heavy load application	
		Rated power kW	Rated output current (A)	Rated power kW	Rated output current (A)
F9	EP6 4T200G/220PL	220	414	200	377
	EP6 4T220G/250PL	250	477	220	414
	EP6 4T250G/280PL	280	520	250	477
F10	EP6 4T280G/315PL	315	605	280	520
	EP6 4T315G/355PL	355	675	315	605
F11	EP6 4T355G/400PL	400	725	355	675

## SIZE



## DIMENSIONS

Specification	Overall dimensions	Installation spacing	Mounting screw
	H*W*D (mm)	W1(W2)*H1 (mm)	
F0	300*130*200	114*288	4-M5
F1	300*130*200	114*288	4-M5
F2	345*150*200	131*332	4-M5
F3	380*190*200	171*366	4-M6
F4	420*205*215	150*405	4-M6
F5	550*233*255	170*533	4-M6
F6	615*300*305	225*595	4-M8
F7	640*335*320	240*617	4-M8
F8	825*400*353	300*796	4-M10
F9	1240*405*510	290(230)*1095	6-M8
F10	1400*400*548	250*1255	6-M8
F11	1030*630*375	500*997	6-M14

# Optional Expansion Card

## 1. Intelligent flexible driver torque cut-off STO expansion card



AS.L17/P

## 2. ProfiNet communication card of intelligent flexible driver



AS.L03/C9

## 3. EtherCAT communication card of intelligent flexible driver



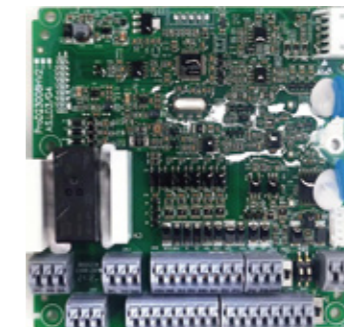
AS.L18/F

## 4. IO board of intelligent flexible driver

Optional IO board for intelligent flexible driver	
Optional classification	Board model
Universal standard IO board – A board	AS.L03/C2
Universal IO board – B board	AS.L03/G4
With SSI programmable IO board – with isolated 485	AS.L03/D4.01
With SSI programmable IO board – with isolated CAN	AS.L03/D4.02



Universal standard IO board - A board



Universal standard IO board - B board

## 5. Encoder PG card for intelligent flexible driver

Optional PG card for intelligent flexible driver	
Optional classification	Board model
5V incremental PG card	AS.L06/C9.01
12V incremental PG card	AS.L06/C9.02
5V incremental frequency-divided PG card	AS.L06/C9.03
12V incremental frequency-divided PG card	AS.L06/C9.04
12V incremental PG card, TTL level	AS.L06/C9.05
12V incremental frequency-divided PG card, TTL level	AS.L06/C9.06
ENDAT PG card 5V frequency-divided	AS.L06/D1.01
ENDAT PG card 5V	AS.L06/D1.02
Resolver PG card	AS.L06/D2.01
SINCOS frequency-divided PG card 5V	AS.L06/C5.01
SINCOS PG card 5V	AS.L06/C5.02
12V SINCOS frequency-divided PG card	AS.L06/C5.03
12V SINCOS PG card	AS.L06/C5.04

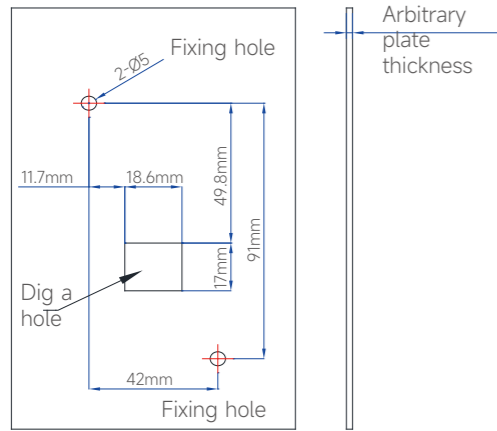


# Optional Accessories

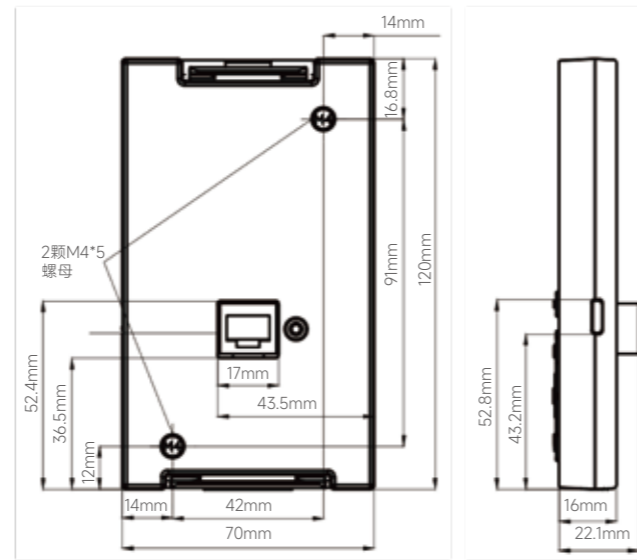
## 1. LCD large screen operator

Operator model: AS.OP/G01; (FB0000220)  
 Black box expansion card: TF card; SanDisk; 32G  
 (RH0001067)

Use the operator panel alone as the externally led panel installation, and drill holes in the cabinet door to fix it. The size of the hole on the cabinet door is shown in the figure below.



Schematic diagram of the drilling dimensions of the operator's externally led panel cabinet door

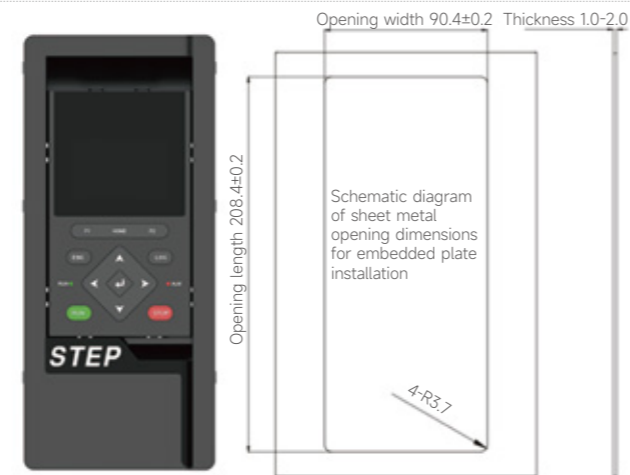


Sizes of the inverter operator

## 2. Embedded board of externally led operator

Model: Embedded board combination; ET6 4T075.43.02  
 (RE0001036)

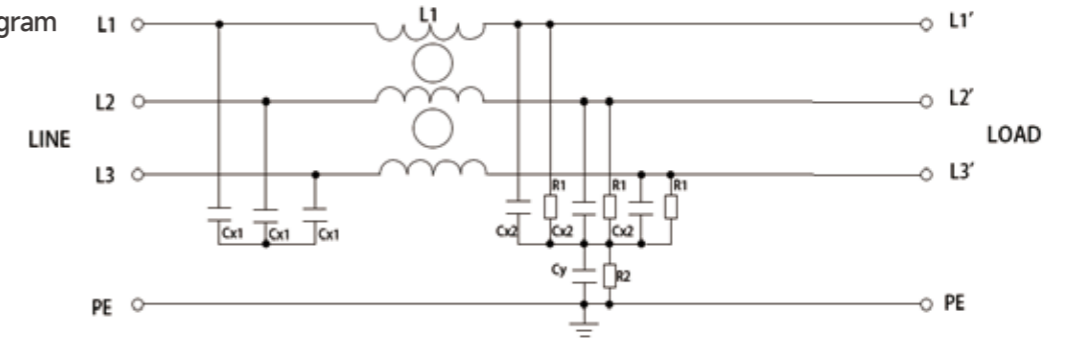
The embedded kit is fixed, and the dimensions of the cabinet door opening are as follows:



Schematic diagram of the dimensions of the cabinet door opening

# F7-F10 Selection of C2 Power Body External Filter

## 1. Schematic diagram of filter:

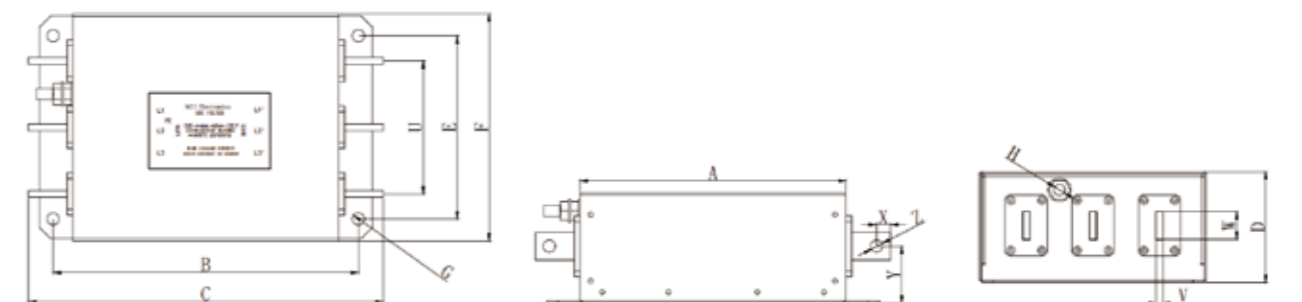


## 2. Selection of input filter

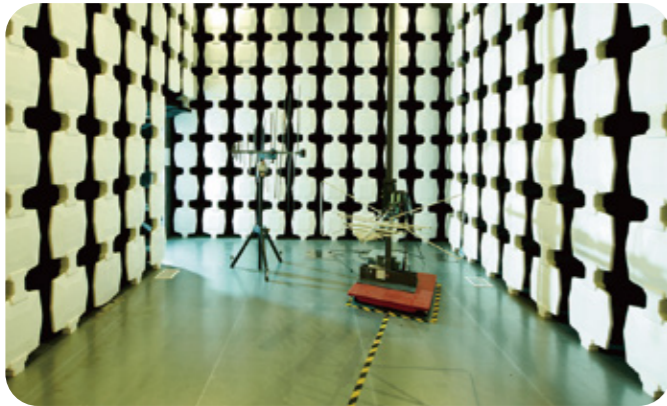
Power body	Recommended model	Voltage VAC	Power kW	Rated current A	Overall dimensions	Weight kg
F7	EMI-0250-0M20-STEP	380-480V	132	250	No.4	7
F8	EMI-0400-0M20-STEP	380-480V	200	400	No.4	9
F9	EMI-0600-0M20-STEP	380-480V	315	600	No.4	10
F10	EMI-0800-0M20-STEP	380-480V	355	800	No.4	10

## 3. Filter size (unit: mm)

Input number	A	B	C	D	E	F	G	H	U	V	W	X	Y	Z
EMI-0250-0M20-STEP	240	275	320	100	165	205	11	10	120	3	20	10	52	9
EMI-0400-0M20-STEP	240	275	320	100	165	205	11	10	120	6	25	12.5	52	11
EMI-0600-0M20-STEP	240	275	320	100	165	205	11	10	120	8	25	12.5	52	11
EMI-0800-0M20-STEP	310	345	410	130	155	205	11	10	120	8	40	20	69	13.5



## Independent Research & Development Capabilities



The laboratory of STEP Enterprise Technology Center is in full compliance with international standards, which are established in ISO/IEC17025, accredited by CNAS, certificate number is L6430.



**1000+**

R&D personnel account for 39% of the total number of employees

**5**

R&D center



**1200+**

Patterns and copyrights

**20 亿**

Cumulative R&D investment since listing



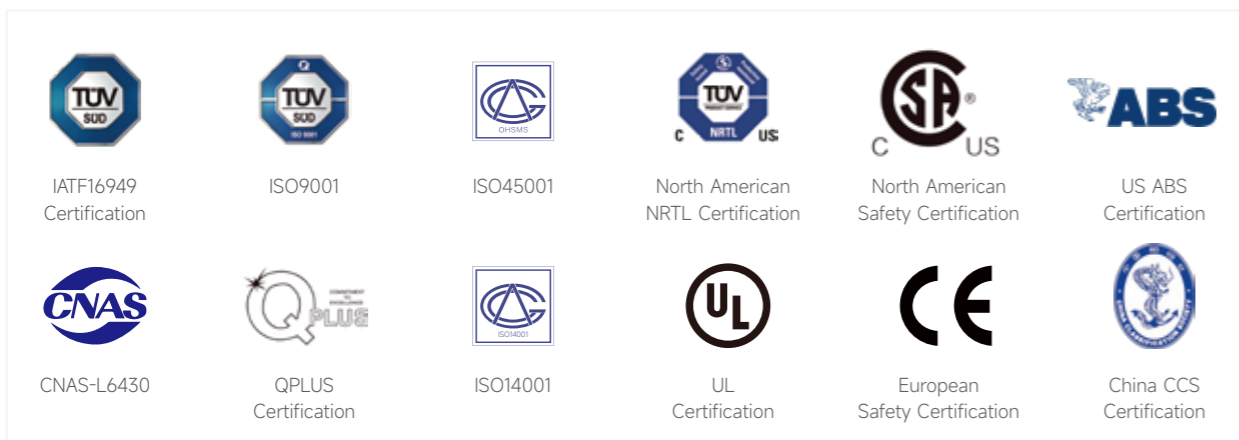
**40+**

Participate in the formulation of national standards and industry standards



## Global Quality Certification System

QEHS System Coverage, Practicing Comprehensive Standardized Quality Management



## Global Network Services

Extremely Efficient Global Service Response Network

**5**

Domestic Production Base

**20+**

Domestic Business Outlets

**20+**

Domestic and Overseas Subsidiaries

Serving the world **110** countries and regions



## Service System Guarantee

Solid and Reliable After-sales Service System Guarantee

### Full Life Cycle Service

Provide one-stop professional technical services from installation, commissioning, trial production to delivery and operation, ensuring safe, stable and efficient operation of the equipment throughout the product life cycle

### Professional After-sales Service Team

Service outlets radiating across the country, capable of quick response  
Arrive at the customer's site within 24 hours to provide rigorous and professional service

### Complete Training System

Well-equipped training site and practical teaching materials system  
Mature online and offline training system

### Timely Supply of Spare Parts

A complete spare parts warehouse relieves customers from worries

