MEGMEET

Power Solutions

☐ Telecom Power ☐ Server Power ☐ Electric Power ☐ Medical Power ☐ Display Power ☐ LED Power
☐ Laser Power ☐ OA Power ☐ Flat Panel Power ☐ Bi-directional Inverters for Portable Power
☐ Solar & BESS & EV Charging Solution

Industry Automation

☐ Servo System ☐ Control System ■ Elevator Controller ☐ Linear Motors ☐ IOT Solution ☐ Encoder
☐ Variable Frequency Drive ☐ Internal Gear Pump

New Energy Solutions

☐ Multiplexed EV Charging System(OBC & DC-DC) ☐ Power Electronic Unit(2-in-1, 3-in-1)
☐ E-Compressor ☐ TV EDU ☐ Motor Control Unit ☐ Construction Machinery Controller
☐ Intelligent Active Hydraulic Suspension (i-AHS) ☐ Railway A/C Controller ☐ Railway VFD
☐ Light Electric Vehicle Controller ☐ Thermal Mgmt. System

Home Appliance Control Solutions

☐ Residential A/C Controller ☐ Commercial A/C Controller ☐ Heat Pump Controller
☐ Vehicle A/C Controller ☐ Solar A/C Controller ☐ Mini Compressor Controller
☐ Refrigerator Controller ☐ Washer/Dryer Controller ☐ Residential Microwave
☐ Industrial Microwave ☐ Smart Bidet ☐ RF Thawing System

Precision Connection

☐ FFC ☐ FPC ☐ Coaxial Cable ☐ CCS ☐ Litz Wire ☐ Peek Wire

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Version: 202505

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Megmeet

MEGMEET

Elevator Industrial Solution and Product Catalogue

Global Leading Solution Provider In Electrical Automation

Contents

ABOUT MEGMEET

MEGMEET is a comprehensive solution provider for hardware and software R&D, production, sales, and service in the field of electrical automation. With power electronics and automation control at its core, MEGMEET's main businesses include Power Solutions, Industrial Automation, New Energy Solutions, Intelligent Equipment, Home Appliance Control Solutions, and Precision Connection.

MEGMEET has established a robust R&D, manufacturing, marketing, and service platform, with over 7,600 employees, including more than 2,800 R&D staff worldwide. MEGMEET's global presence includes R&D Centers in China, the United States, and Germany; Manufacturing Centers in Thailand, India, the United States, and China; and Regional Offices across North America, South America, Europe, Central Asia, Northeast Asia, Southeast Asia, India, the Middle East, Oceania, and Africa.

MEGMEET is committed to creating a cleaner living environment for all human beings through more efficient energy utilization and improved manufacturing efficiency. MEGMEET aims to become the world leader in electrical automation and achieve the goal of MEGMEET EVERYWHERE.

2800+ R&D Staff

10 R&D Centers

9 R&D Manufacturing Bases

7600+ Total Employees

1990+ No. of Patents & IP Rights

R&D CAPABILITY

Sustainable R&D Investment

R&D Investment

R&D Employees
>2800

Percentage of Total Employees
36%

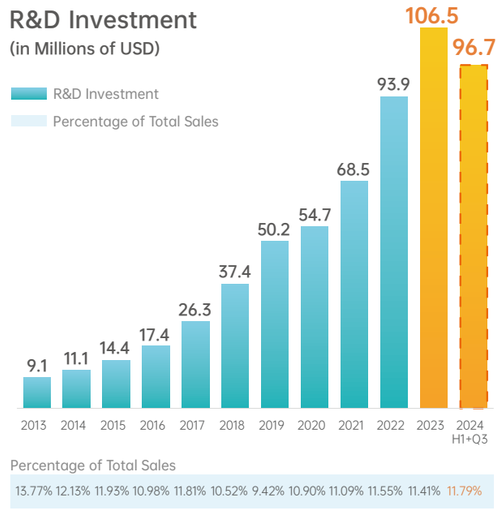
Percentage of Total Sales
>11%

Patents & Industry Standards

No. of Patents & IP Rights
1990+
400+ new in 2024

National & International standards
32
- 9 lead author

Industry Standards Drafted
38
- 28 lead author



Testing Capabilities & Management System

MEGMEET's testing capabilities and management system have been certified by CNAS, TUV, UL-WTDP, and UL-CTF. MEGMEET's test results are recognized globally.

Development History

2003

Megmeet was founded, starting from power supply of flat panel display

2007

Set foot in industrial automation and industrial power

2011

Began to develop key components for new energy vehicles

2014

Established Hunan Zhuzhou Global Manufacturing Base to empower customers around the world. Stepped into smart home appliance and intelligent welding machine areas with considerable scale

2017

Listed in small and medium enterprise board, stock code 002851

2019

Went further in global market, with more research centers and manufacturing bases home and abroad

2020

Made it to the list of Forbes TOP200 small and medium-sized enterprises in the Asia-Pacific region

2022

Formed six major business sectors, and especially ranked 7 in terms of global power supply sales (from MTC Report)

2023-Future

Broadens business areas and deepens technical strength to pursue steady development

Product Features

Easy to Use

- Integration of drive and control with compact structure, suitable for small machine room or MRL deployment
- Simplified parameter settings, making on-site commissioning much easier
- Onboard keypad design, facilitating commissioning, inspection and maintenance
- Load cell auto-tuning for any weight
- Multiple commissioning methods: PC host software, operating panel and mobile pone App
- Leveling accuracy adjustment in the car
- Auto-detection of balance coefficient, and test of slippage

Cost-Effective System

- Highly integrated system, with peripheral cables largely reduced, thus lowering costs and improving elevator safety and stability
- Collaboration of CANbus and Modbus communication, reducing traveling cables to the greatest extent
- Abundant and flexible modular expansions
- Just 2 cables required to achieve parallel connection, with no need for the group control board

Comfortable Experience

- No-load-cell technology or special load cell compensation device, providing smooth startup torque compensation
- High-performance vector control, unleashing the potential of motor drive and bringing superb comfort

Advanced Technology

- Direct-to-floor technology: velocity profile based on distance control, with smooth speed and high efficiency
- Integrated design: integration of elevator logic control and motor drive control, dual CPU control, CANbus, Modbus and IoT communication
- No-load-cell startup torque compensation technology: zero-speed smooth elevator start without the load cell, compatible with various kinds of encoders and motors
- With-load auto-tuning: capable of doing both PM syn. motor and asyn. motor with-load auto-tuning
- Parallel control for 2 elevators and group control up to 8 elevators: parallel and group elevator control algorithms based on the modern control theory

Robust Safety

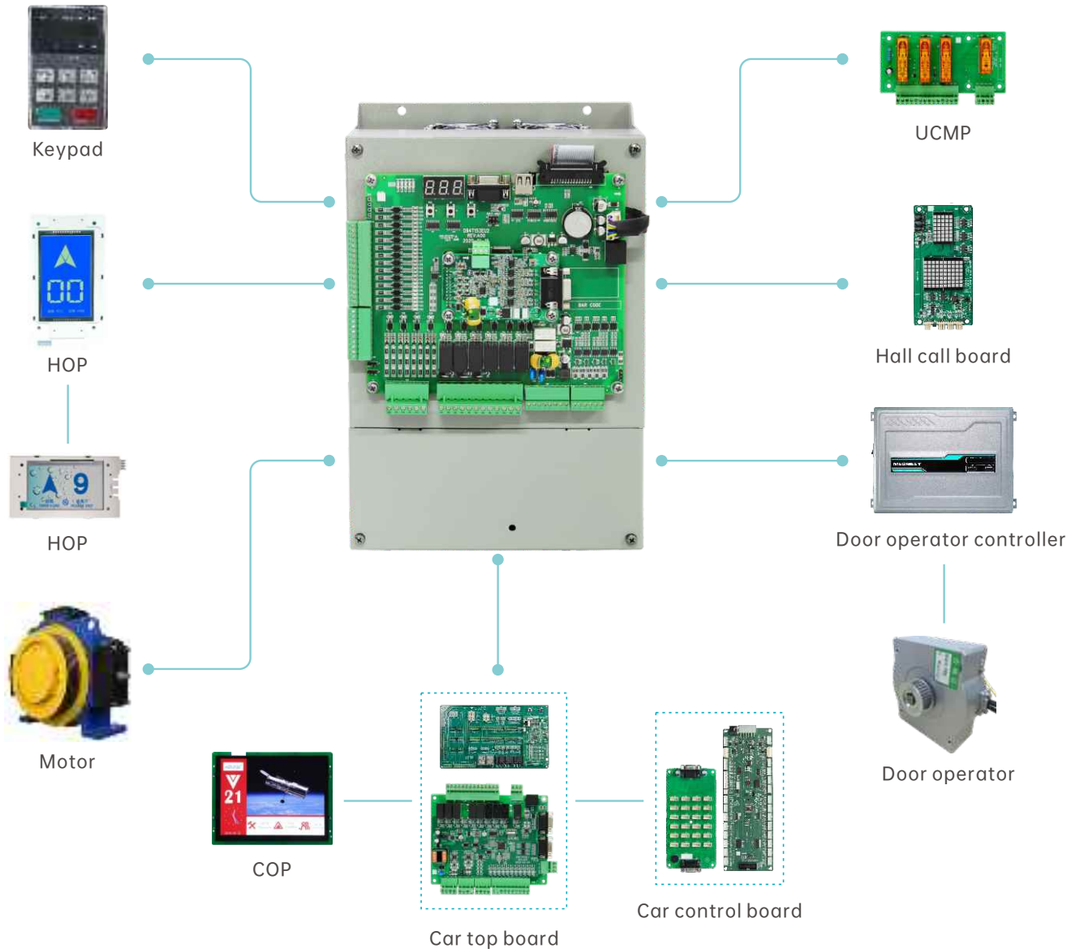
- Multiple ways of protection, with strict compliance with GB-T7588.1-2020 requirements
- Fault tolerant design of hardware & software and classified fault countermeasures, preventing accidents (top-hitting & bottom-clashing)
- Cutting-edge drive manufacturing technology, with strong adaptation to harsh environments such as power grid fluctuation, dust, high temperature and lightning
- Dual chip control, brake and STO functions
- UCMP, braking force and door lock shorting detection

SMILE3000

Integrated Elevator Controller

Smile3000 series integrated elevator controller, independently designed by Megmeet, incorporates motor drive, elevator (group) control and internet technologies to achieve intelligence. The controller is excellent in performance, fully featured, safe and reliable, easy to operate and cost-effective.

Single-phase 220 V	Three-phase 220 V	Three-phase 380 V
Power: 2.2 to 5.5 kW	Power: 2.2 to 11.0 kW	Power: 5.5 to 75 kW



Technical Specifications

Electrical Specifications	
Input voltage	220 V: single-phase 220 to 240 V; 50/60 Hz 400 V: three-phase 380/400/415/440 V; 50/60 Hz Permissible voltage fluctuation: -15% to +10%
Input frequency	50/60 Hz ±5%
Output voltage	0 to input voltage
Output frequency	0 to 99.99 Hz
Basic Features	
Floor	Up to 48 floors
Elevator speed	Up to 4 m/s
Group control	Up to 8 elevators
Communication method	CAN, Modbus communication
Input and Output	
Control power supply of optocoupler input	Isolated 24 VDC
Low-voltage optocoupler isolation input	28 DIs. Optocoupler control signal is the isolated 24 VDC power input signal
High-voltage optocoupler isolation input	4 DIs
Relay output	6 NO contacts, SPST, contact switching capacity 5 A, contact load (resistive): 5 A 250 VAC or 5 A 28 VDC
USB interface	Commissioning interface
CAN communication interface	Two ways (car top communication, parallel or group)
MOD communication	Two ways (hall call communication or IoT)
Analog input	One single-ended or differential input, input voltage range -10 V to +10 V, accuracy 1%

Naming Rule

Smile3000 - 4 T 15

① ② ③ ④

① Product series
Integrated elevator series

② Input voltage
2: 220 V 4: 380 V

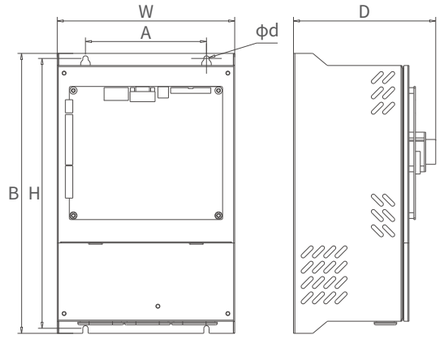
③ Input phase
S: Single-phase
T: Three-phase

④ Rated output power (2.2 to 75 kW)
15: 15 kW

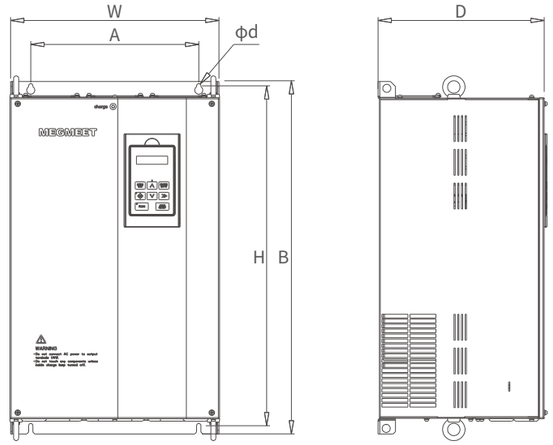
Technical Parameters

SIZE	Product model	Applicable power (kW)	Rated capacity (kVA)	Rated input current (A)	Rated output current (A)	Max. braking resistance (Ω)	Min. braking resistance (Ω)	Power (W)
A	Smile3000-2S1.1	1.1	1.8	8.8	5.5	90	64	650
	Smile3000-2S1.5	1.5	2.7	12.5	7.7	85	64	1000
	Smile3000-2S2.2	2.2	4.0	17.9	12.0	58	50	1200
	Smile3000-2S3.7	3.7	6.0	25.3	18.0	45	37	1600
	Smile3000-2S5.5	5.5	8.6	34.6	23.0	32	18	2000
	Smile3000-2T2.2	2.2	4.0	11.0	10.0	90	64	1200
	Smile3000-2T3.7	3.7	6.0	17.0	15.0	85	64	1600
	Smile3000-2T5.5	5.5	9.0	29.0	27.0	32	18	2000
	Smile3000-2T7.5	7.5	12.6	36.0	33.0	23	17	2500
	Smile3000-2T11	11	15.0	41.0	47.0	19	15	3000
	Smile3000-4T5.5	5.5	8.5	15.0	13.0	108	82	1850
	Smile3000-4T7.5	7.5	11.0	21.0	18.0	80	60	2500
	Smile3000-4T11	11	18.0	28.0	27.0	56	43	3500
	Smile3000-4T15	15	22.0	33.0	33.0	44	33	4500
	Smile3000-4T18.5	18.5	24.0	40.0	39.0	36	27	5500
	Smile3000-4T22	22	30.0	50.0	48.0	33	25	6400
	Smile3000-4T30	30	42.0	62.0	60.0	21	16	9000
B	Smile3000-4T37	37	50.0	75.0	75.0	18	14	11000
	Smile3000-4T45	45	60.0	90.0	90.0	14.5	11.5	15000
	Smile3000-4T55	55	72.0	112.0	110.0	12	10	16500
	Smile3000-4T75	75	100.0	157.0	152.0	8	6.5	24000

Installation Dimensions



SIZE A/B/C/D/E/F



SIZE G/H

SIZE	Product model	W (mm)	A (mm)	B (mm)	H (mm)	D (mm)	Hole diameter (mm)
A	Smile3000-2S2.2 Smile3000-2S3.7 Smile3000-2S4.0 Smile3000-2S5.5	223	150	347	334.5	143	6.5
B	Smile3000-2T2.2 Smile3000-2T3.7 Smile3000-2T4.0 Smile3000-2T5.5	220	150	347	334.5	176.3	6.5
C	Smile3000-2T7.5 Smile3000-2T11	337.5	292.5	347	520.5	279.5	7.0
D	Smile3000-4T5.5 Smile3000-4T7.5	220	150	307	294	160.1	6.5
E	Smile3000-4T11 Smile3000-4T15	220	150	347	335	167	6.5
F	Smile3000-4T18.5 Smile3000-4T22 Smile3000-4T30	225	195	347	335	186.3	6.5
G	Smile3000-4T37 Smile3000-4T45	335	270	570	549	267	7.0
H	Smile3000-4T55 Smile3000-4T75	335	270	600	579	292	7.0

MV820E
Elevator AC Drive

Product Overview

MV820E series elevator AC drive is developed on a new core hardware platform, designed with delicate structure, and optimized for control algorithms to achieve drive integration of asyn. and PM syn. motors. It adopts modular interface expansions, matches various kinds of encoders with bus communication, and offers flexible S-ramps as well as special logic control for elevators, enhancing control performance, improving safety and reliability and facilitating commissioning.

Technical Specifications

Electrical Specifications	
Rated voltage	2S/2T models: single/three-phase 220 V to 240 V; continuous fluctuation of voltage ±10%, transient fluctuation -15% to +10%, that is, 187 V to 264 V; voltage unbalance rate: < 3%, distortion rate compliant with IEC 61800-2 4T models: three-phase 380 V to 480 V; continuous fluctuation of voltage ±10%, transient fluctuation -15% to +10%, that is, 323 V to 528 V; voltage unbalance rate: < 3%, distortion rate compliant with IEC 61800-2
Rated frequency	50/60 Hz, fluctuation range ±2 Hz
Output voltage	Three-phase output under rated input conditions, 0 to rated input voltage, deviation less than ±3%
Output frequency	V/F: 0.00 to 599.00 Hz; unit: 0.01 Hz; vector control: 0 to 599 Hz
Performance Specifications	
Control mode	Flux vector control without PG, V/F control, Flux vector control with PG
Overload capacity	1 min for 150% rated current, 10 s for 200% rated current
Speed regulation range	1: 200 (flux vector control without PG); 1: 1000 (flux vector control with PG)
Speed control precision	±0.5% (flux vector control without PG); ±0.02% (flux vector control with PG)
Speed fluctuation	±0.3% (flux vector control without PG); ±0.1% (flux vector control with PG)
Torque response	< 20 ms (flux vector control without PG); < 10 ms (flux vector control with PG)
Torque control	Torque control precision ±5% for vector control without PG (above 5 Hz for asynchronous motors, above 10 Hz for synchronous motors); ±3% for vector control with PG
Startup torque	0.25 Hz 150% (flux vector control without PG); 0.00 Hz 180% (flux vector control with PG)

Naming Rule

MV820E - 4 T 5.5 - PG - F

(1) (2) (3) (4) (5) (6)

1 Product series
MV820E Elevator AC Drive

2 Input voltage
2: 220 V
4: 380 V

3 Input phase
S: Single-phase
T: Three-phase

4 Rated capacity
5.5: 5.5kW

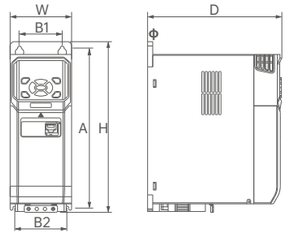
5 With/Without PG card
PG: With PG card
None: Without PG card

6 Compatible encoders
F: Compatible with 1313 encoders
P: Compatible with ABZ encoders
S: Compatible with 1387 Sin/Cos encoders

Technical Parameters

SIZE	Product model	Rated input current (A)	Rated output current (A)	Rated output power (kW)	Recommended braking resistor (Ω)	Min. braking resistance (Ω)	Braking torque (%
B	MV820E-2S0.4	5.3	2.4	0.4	80 W / 200 Ω	95 Ω	120
	MV820E-2S0.75	10.4	4.2	0.75	80 W / 150 Ω	68 Ω	120
	MV820E-2S1.5	16.2	7.5	1.5	100 W / 100 Ω	32 Ω	120
	MV820E-4T0.75	3.5	2.7	0.75	140 W / 800 Ω	270 Ω	120
	MV820E-4T1.5	5.1	4.2	1.5	300 W / 380 Ω	220 Ω	120
	MV820E-4T2.2	5.8	5.6	2.2	440 W / 260 Ω	100 Ω	120
C	MV820E-4T3.7	10.5	9.4	3.7	740 W / 150 Ω	82 Ω	120
	MV820E-4T5.5	14.5	13.0	5.5	1100 W / 100 Ω	50 Ω	120
D	MV820E-2T3.7	21.3	17.0	3.7	800 W / 33 Ω	22 Ω	120
	MV820E-2T5.5	32.0	25.0	5.5	1300 W / 22 Ω	16.5 Ω	120
	MV820E-4T7.5	20.5	17.0	7.5	1500 W / 75 Ω	50 Ω	120
	MV820E-4T11	26.0	25.0	11	2200 W / 50 Ω	30 Ω	120
E	MV820E-4T15	35.0	32.0	15	3000 W / 38 Ω	22 Ω	120
	MV820E-4T18.5	49.0	37.0	18.5	4000 W / 33 Ω	24 Ω	120
F	MV820E-4T22	58.0	45.0	22	4500 W / 27 Ω	24 Ω	120
	MV820E-4T30	62.0	60.0	30	6000 W / 20 Ω	19.2 Ω	120

Installation Dimensions



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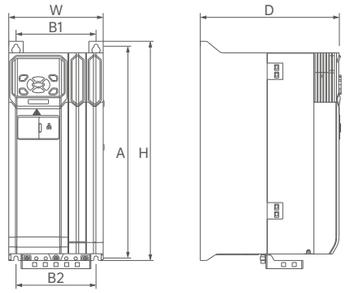

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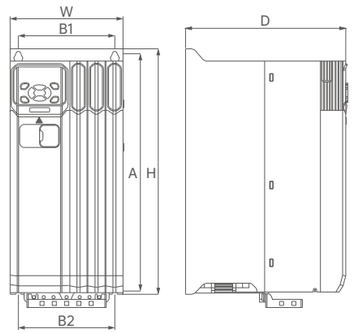

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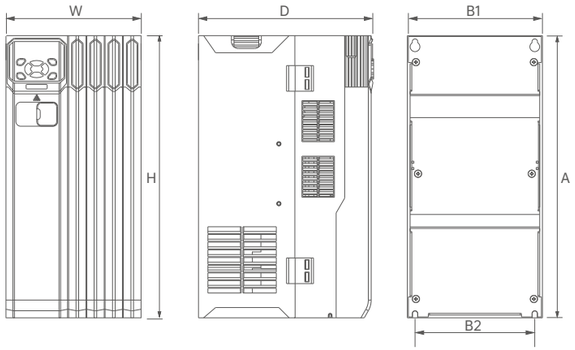

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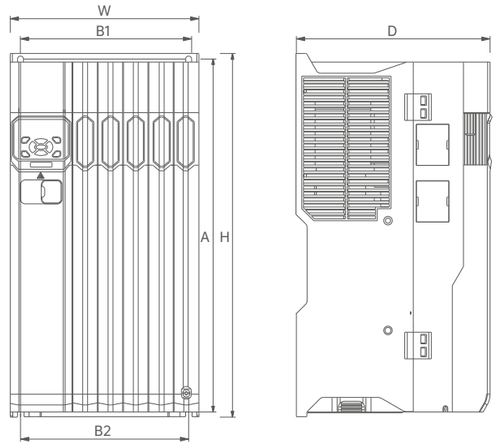


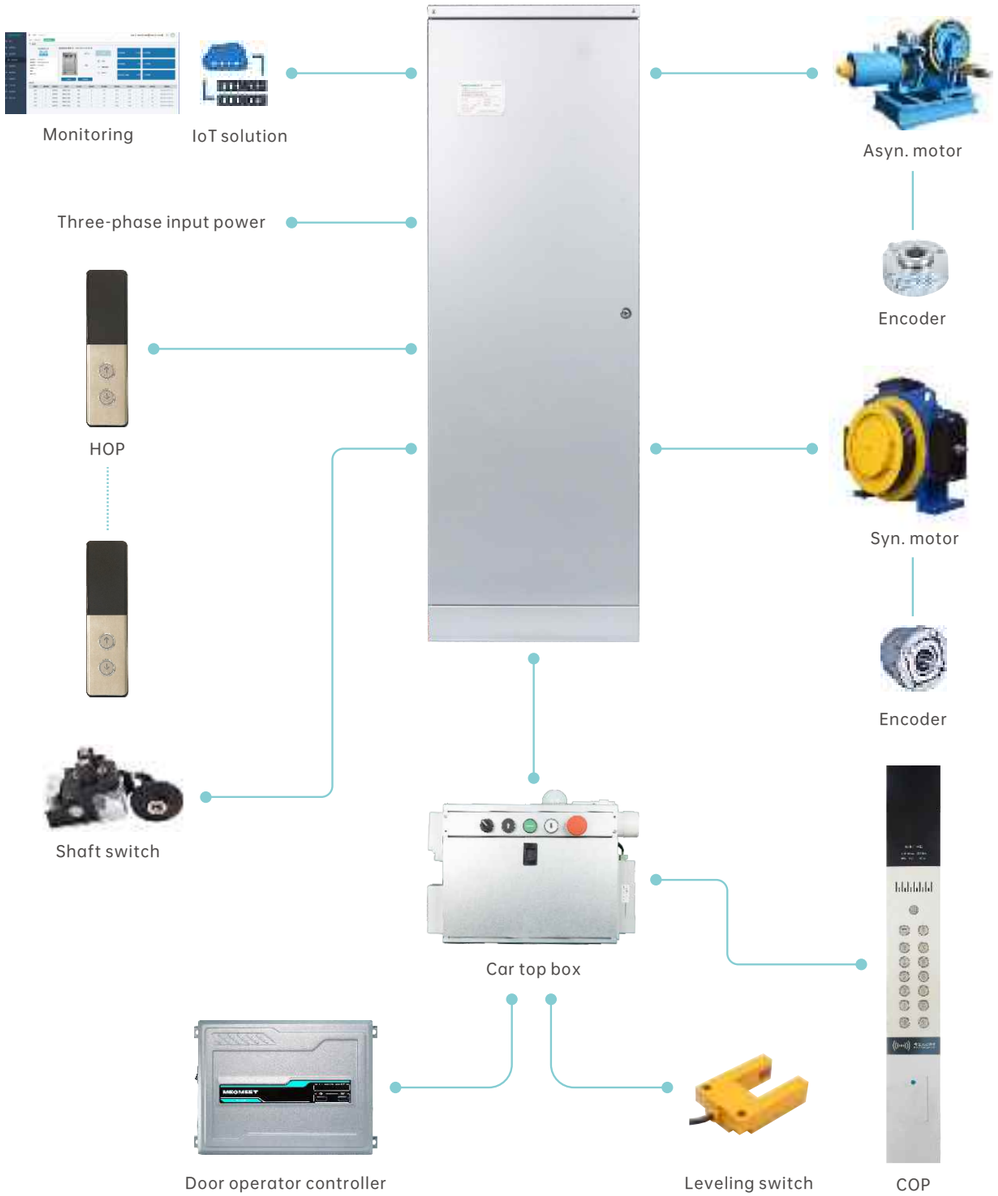
SIZE F

SIZE	Product model	A (mm)	B1 (mm)	B2 (mm)	H (mm)	W (mm)	D (mm)	Hole diameter (mm)
B	MV820E-2S0.4 MV820E-2S0.75 MV820E-2S1.5 MV820E-2S2.2 MV820E-4T0.75 MV820E-4T1.5 MV820E-4T2.2	187.5	50	61	200	72	158.5	4.5
C	MV820E-2T3.7 MV820E-4T5.5	259	97.5	97.5	267	115	171	5
D	MV820E-2T3.7 MV820E-2T5.5 MV820E-4T7.5 MV820E-4T11	290	118	118	300	138	195.92	6
E	MV820E-4T15 MV820E-4T18.5	318	140	140	330	158	204.8	6
F	MV820E-4T22 MV820E-4T30B	412	196	196	424	220	229	7

Smile3000–M

Integrated Elevator Control Cabinet

Electrical Control Solution for Elevators



Product Features

Advanced

- High-performance drive platform, with a dual-CPU framework
- Leading parallel control of 2 elevators and group control up to 8 elevators
- Cutting-edge vector control with great motor speed regulation, improving the riding comfort

Intelligent

- Direct-to-floor distance control, deriving smooth N velocity profiles automatically
- Innovative no-load-cell start compensation technology, compatible with different encoders, achieving smooth elevator start

Integrated

- Modular design, each module easy to disassemble and replace
- Integrated with advanced CANbus, Modbus and IoT communication

Convenient

- Offers guidance for on-site elevator commissioning
- Provides various commissioning tools, including PC host software, operating panel and mobile phone App
- Beautiful appearance and impressive panel design

Technical Specifications

Electrical Specifications	
Input voltage	Single-phase 220 to 240 V; three-phase 380/400/415/440 V; Fluctuation less than ±10%, unbalance rate < 3%
Input frequency	50/60 Hz ±5%
Output voltage	0 to input voltage
Output frequency	0 to 99.99 Hz
Input and Output	
Control power supply of optocoupler input	Isolated 24 VDC
Low-voltage optocoupler isolation input	28 DIs. Optocoupler control signal is the isolated 24 VDC power input signal
High-voltage optocoupler isolation input	4 DIs
Relay output	6 NO contacts, SPST, contact switching capacity 5 A, contact load (resistive): 5 A 250 VAC or 5 A 28 VDC
USB interface	Commissioning interface
CAN communication	Two ways (car top communication, parallel or group)
MOD communication	Two ways (hall call communication or IoT)
Analog input	One single-ended or differential input, input voltage range -10 V to +10 V, accuracy 1%

Basic Elevator Features	
Floor	Up to 48 floors
Elevator speed	Up to 4 m/s
Group control	Up to 8 elevators
Communication	CAN, Modbus

Naming Rule

Smile3000 - M - 4 075

(1) (2) (3) (4)

1 Product series

Smile3000 series

2 Cabinet type

Cabinet type

3 Voltage class

4: Three-phase 380 VAC

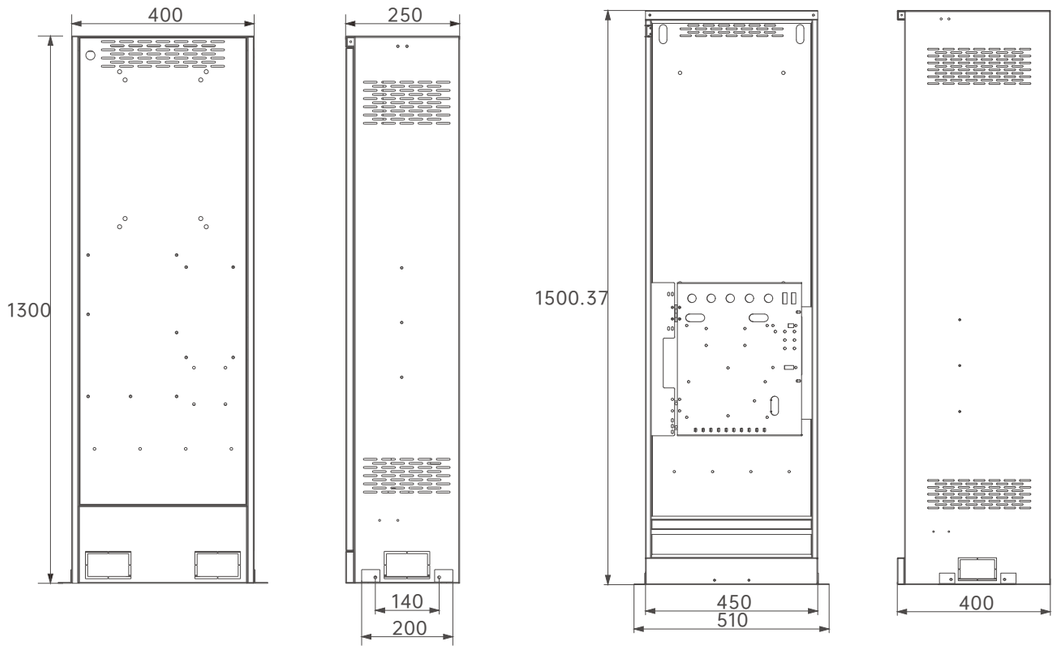
4 Power rating
(5.5 to 75 kW)

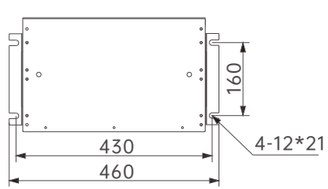
075: 75 kW

Technical Parameters

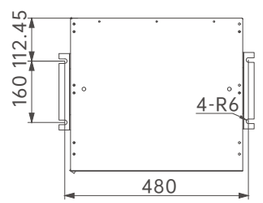
SIZE	Product model	Applicable power (kW)	Rated capacity (kVA)	Rated input current (A)	Rated output current (A)	Max. braking resistance (Ω)	Min. braking resistance (Ω)	Power (W)
A	Smile3000-M-4T07.5	7.5	11.0	21.0	18.0	80	60	2500
	Smile3000-M-4T011	11	18.0	28.0	27.0	56	43	3500
	Smile3000-M-4T015	15	22.0	33.0	33.0	44	33	4500
	Smile3000-M-4T018.5	18.5	24.0	40.0	39.0	36	27	5500
	Smile3000-M-4T022	22	30.0	50.0	48.0	33	25	6400
	Smile3000-M-4T030	30	42.0	62.0	60.0	21	16	9000
B	Smile3000-M-4T037	37	50.0	75.0	75.0	18	14	11000
	Smile3000-M-4T045	45	60.0	90.0	90.0	14.5	11.5	15000
	Smile3000-M-4T055	55	72.0	112.0	110.0	12	10	16500
	Smile3000-M-4T075	75	100.0	157.0	152.0	8	6.5	24000

Installation Dimensions





SIZE A

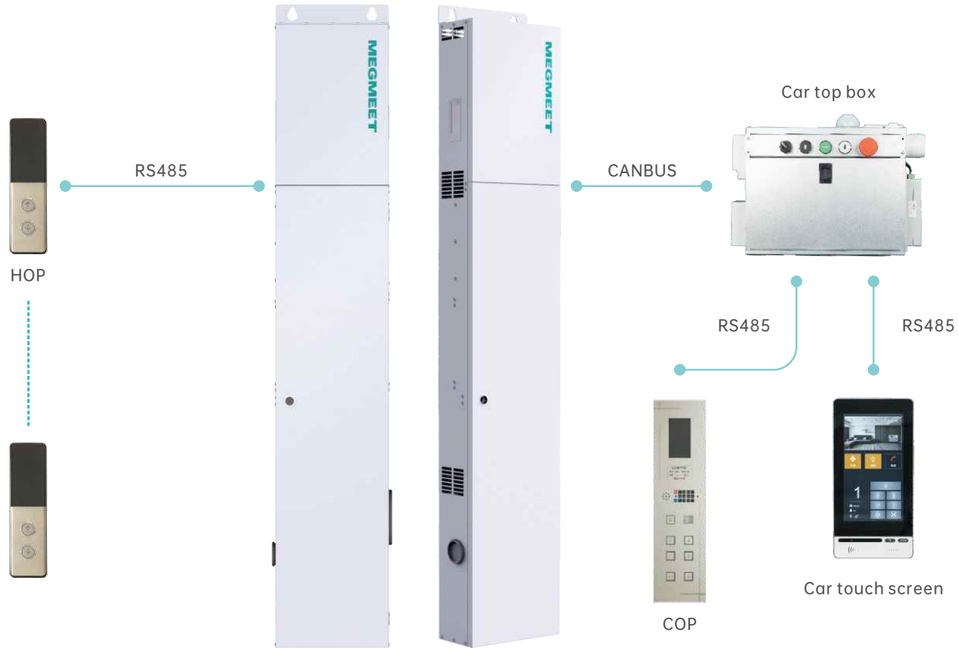


SIZE B

Smile3000–V

Integrated Home Elevator Control Cabinet

Home Elevator Solution



Product Features

Quiet Running

- Advanced motor drive and elevator logic control
- Low motor noise and multiple curves, bringing superb riding comfort
- Quiet operation without contactors (STO)

Highly Integrated

- Modular design, each module easy to disassemble and replace
- Integrated with advanced CANbus, Modbus and IoT communication
- Ultra-slim design and pleasant appearance, in harmony with home decorations

Safe and Reliable

- ARD and electrical brake release as the standard configuration, along with multiple rescuing methods
- Remote wireless monitoring through elevator IoT, facilitating maintenance

Intelligent and Easy to Use

- Offers guidance for on-site elevator commissioning
- Provides various commissioning tools, including PC host software, operating panel and mobile phone App
- Equipped with the HMI touch screen to display various information and perform emergency call/rescuing/maintenance operations

Technical Specifications

Electrical Specifications	
Input voltage	AC220 V control cabinet: AC 187 V to AC 253 V AC380 V control cabinet: AC 323 V to AC 437 V
Max. frequency	99 Hz
Carrier frequency	2 kHz to 16 kHz, adjusted automatically according to load features
Motor control mode	Closed-loop vector control
Startup torque	0.5 Hz / 180% (open-loop vector control) 0 Hz / 200% (closed-loop vector control)
Speed regulation range	1:100 (open-loop vector control) 1:1000 (closed-loop vector control); 1:50 (V/F control)
Speed stability accuracy	±0.5% (open-loop vector control); ±0.05% (closed-loop vector control)
Torque control accuracy	±5% (closed-loop vector control)
Overload capacity	60 s for 150% rated current; 1 s for 200% rated current
Motor auto-tuning	With-load auto-tuning No-load auto-tuning
Distance control	Direct-to-floor technology to flexibly adjust the leveling position
Acceleration/Deceleration curve	Automatic generation of multiple curves
Forced slow-down	Automatically identifies the position of slow-down brackets
Shaft auto-tuning	32-bit data, accurately recording the shaft position
Leveling adjustment	Flexible and easy-to-use leveling adjustment
Startup torque compensation	Load cell pre-torque compensation or automatic pre-torque compensation without a load cell
Real-time clock	Accurate real-time clock allows time-based floor services, automatic password and others
Test function	Easy to implement multiple elevator commissioning functions
Fault protection	Classified management and detailed measures for elevator faults
Smart management	Remote elevator monitoring and user management
Safety checks at power-on	Safety check of peripheral devices, such as grounding and short-circuit, after power-on
Status monitoring	Monitors the status of feedback signals to ensure that the elevator works properly
Operation and commissioning	
Operating panel of control cabinet	Equipped with the emergency stop button, EEO switch, EEO up/down button, overspeed governor, and electrical brake release control
Monitoring screen	2-digit display, monitoring all DI/DO statuses of the main board and car top board as well as all communication statuses of the elevator
Smartphone App	A bluetooth module can be connected to the main control board, which allows elevator commissioning, parameter upload and download through a smartphone

Environment	
Altitude	Below 1000 m (derated by 1% for each 100 m higher if the altitude is above 1000 m)
Ambient temperature	-10℃ to +45℃ (derated if the ambient temperature is above 40℃)
Humidity	Less than 95% RH, non-condensing
Vibration	Below 5.9 m/s^2 (0.6 g)
Storage temperature	-20℃ to +60℃
Pollution degree	PD20
IP rating	IP20
Power distribution system	TN/TT

Naming Rule

Smile3000 - V - 2S 2.2

1 **2** **3** **4**

1 Product series
Smile3000 series

2 Cabinet type
Villa elevator

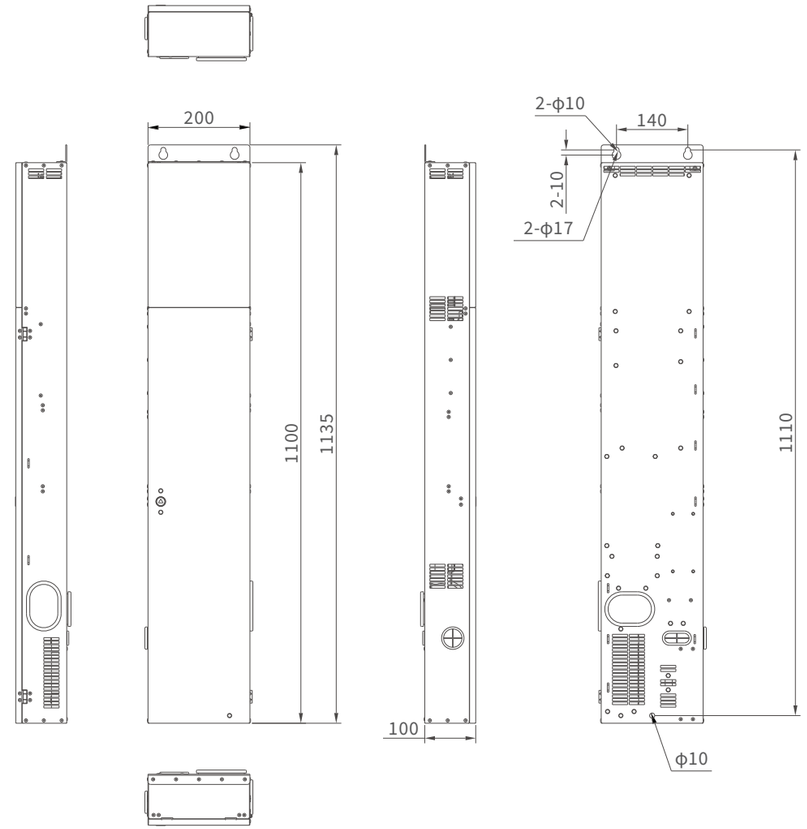
3 Voltage class
2S: Single-phase 220 VAC
4T: Three-phase 380 VAC

4 Power rating
(1.2 to 5.5 kW)
2.2: 2.2 kW

Technical Parameters

Product model	Applicable power	Rated capacity (kVA)	Rated input current (A)	Rated output current (A)	Recommended braking resistance (Ω)	Power (W)
Smile3000-V-2S1.2	1.2	1.8	8.8	5.5	130	300
Smile3000-V-2S2.2	2.2	4.0	17.0	9.9	130	600
Smile3000-V-2S3.7	3.7	6.0	25.3	18.0	40	1600
Smile3000-V-5T5.5	5.5	8.5	15.0	13.0	100	1800

Installation Dimensions



ARD
Automatic Rescue Device

Product Features

- **Smart battery management:** three-stage charging algorithm and longer battery life
- **Redundancy protection:** device self-diagnosis and self-protection in abnormal cases, with higher reliability
- **Clear fault display:** fault displayed in binary, easy to view and fast to locate
- **Simple wiring:** clear terminal definitions and simplified wiring on site
- **Strong compatibility:** compatible with most mainstream systems, free of commissioning
- **Wide voltage range:** 380 VAC ± 15% input, well adapted to the power grid
- **Single/Dual output:** single-phase 380 V / single-phase 380 V + single-phase 220 V, flexible voltage output
- **Wide power range:** covers the full power range of elevator system, fit for the whole series
- **Host system:** dedicated host computer software, facilitating commissioning and monitoring

Technical Specifications

Single Output				
Input voltage	Three-phase AC 380±15%, 50/60 Hz			
Output voltage	Single-phase AC 380±10%, 50/60 Hz			
Applicable elevator power	⩽ 11 kW	SMILE-ARD-A-800	Battery	12 V * 7 Ah * 3
	⩽ 15 kW	SMILE-ARD-A-1000		12 V * 7 Ah * 4
	⩽ 30 kW	SMILE-ARD-A-2000		12 V * 12 Ah * 4
	> 30 kW	SMILE-ARD-A-3000		12 V * 17 Ah * 4
Dual Output				
Input voltage	Three-phase AC 380±15%, 50/60 Hz			
Output voltage	Single-phase AC 380±10%, 50/60 Hz & Single-phase AC 220 V±10%, 50/60 Hz			
Applicable elevator power	⩽ 11 kW	SMILE-ARD-B-800	Battery	12 V * 7 Ah * 3
	⩽ 15 kW	SMILE-ARD-B-1000		12 V * 7 Ah * 4
	⩽ 30 kW	SMILE-ARD-B-2000		12 V * 12 Ah * 4
	> 30 kW	SMILE-ARD-B-3000		12 V * 17 Ah * 4
Protective Function				
Output overcurrent, output overload, battery anomalies, charging failures and mains power failures.				

Naming Rule

Smile - ARD - A 1000

1 2 3 4

1 Product series
Product series

2 Accessory type
Accessory type

3 Output type
A: Single output
B: Dual output

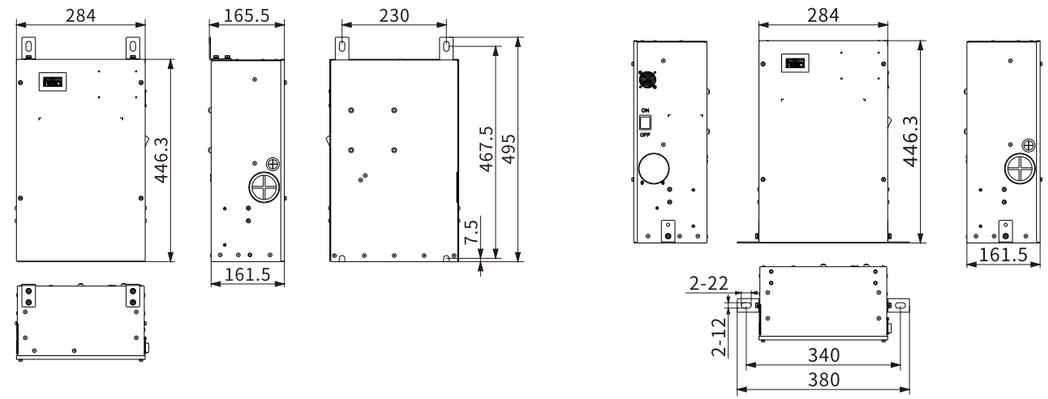
4 Applicable power
800: ⩽ 11 kW
1000: ⩽ 15 kW
2000: ⩽ 30 kW
3000: > 30 kW

Technical Parameters

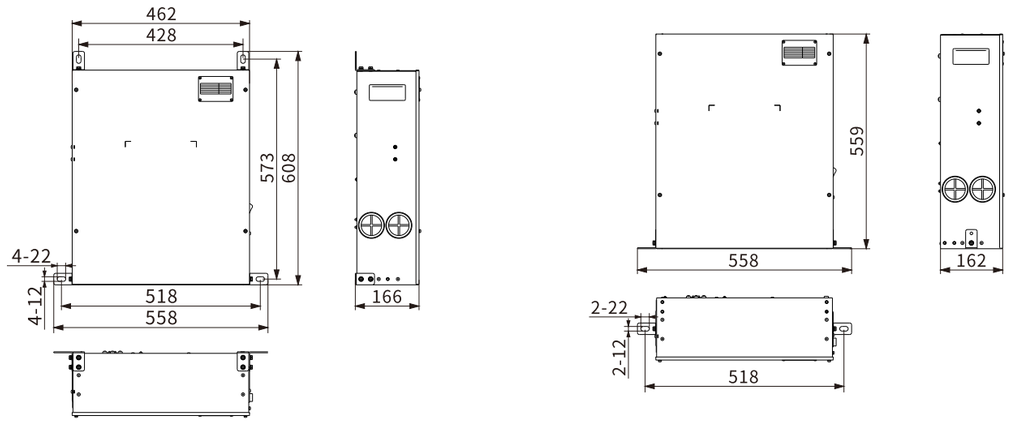
Product model	Applicable elevator power (kW)	Rated input voltage (VAC)	Rated output voltage (VAC)	Rated capacity (kW)	Rated output current (A)	Inversion duration (Min)
SMILE-ARD-B-800	⩽11 kW	380*3P	380+220	0.8	2.0	3.0
SMILE-ARD-B-1000	⩽15 kW	380*3P	380+220	1.0	2.5	3.0
SMILE-ARD-B-2000	⩽30 kW	380*3P	380+220	2.0	5.0	3.0
SMILE-ARD-B-3000	> 30 kW	380*3P	380+220	3.0	7.5	3.0

Installation Dimensions

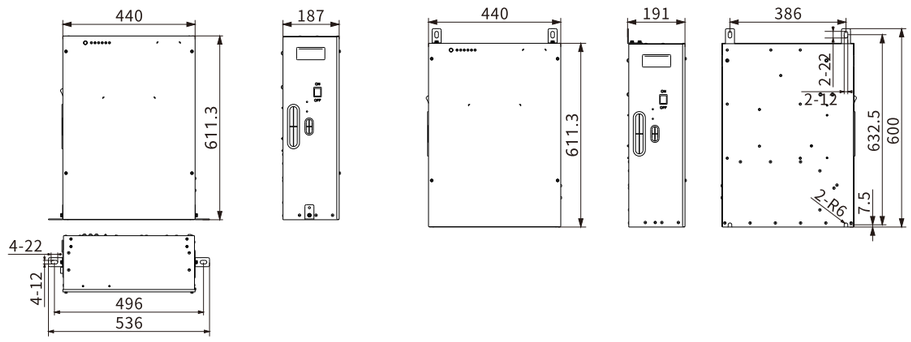
Smile-ARD-B-800



Smile-ARD-B-2000



Smile-ARD-B-3000

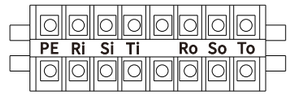


Model	L (mm)	W (mm)	H (mm)	GWT (kg)
Wall-mounted				
Smile-ARD-B-800	284	165	495	16
Smile-ARD-B-1000	284	165	495	18
Smile-ARD-A-2000	462	166	608	25
Smile-ARD-A-3000	440	191	660	35

Model	L (mm)	W (mm)	H (mm)	GWT (kg)
Floor-mounted				
Smile-ARD-B-800	284	161.5	446.3	16
Smile-ARD-B-1000	284	165	495	18
Smile-ARD-A-2000	462	162	559	25
Smile-ARD-A-3000	440	187	611.3	35

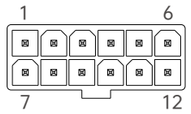
Terminal Description

Main circuit terminals



Mark	Description	Function
Ri	ARD three-phase AC power input	Connect the mains power to Ri, Si and Ti of ARD, and connect Ro, So and To to the elevator control cabinet, then the elevator can work in both normal and emergency states. Note: Do not connect the input power to output terminals Ro, So and To. Otherwise, ARD will be damaged.
Si		
Ti		
PE		
Ro	ARD output	
So		
To		

Control circuit terminals



Mark	Description	Function
Pin7	USER_GND	Power output 24 V negative
Pin1	+24V	Power output 24 V positive
Pin8	Y1 phase sequence shorting signal	Y1 and M1 are connected when ARD is in the emergency state; Y1 and M1 are disconnected when ARD exits the emergency state.
Pin2	M1	
Pin9	Y2 emergency state output signal	Y2 and M2 are connected when ARD is in the emergency state; Y2 and M2 are disconnected when ARD exits the emergency state.
Pin3	M2	
Pin10	Y3 fault output signal	Y3 and M3 are connected when ARD reports that the contactor is stuck or cannot be closed; Y3 and M3 are disconnected when the contactor faults are reset.
Pin4	M3	
Pin11	X3 rescue completion input signal	After the elevator moved to the door zone, opened the door to the limit and the main board sent a valid rescue completion signal (connecting X3 to +24 V), ARD receives the signal and stops output after 30 seconds. If the main board does not send a rescue completion signal, ARD will stop output automatically after running for 3 minutes.
Pin5	X2 inspection shutdown input signal	X2 and +24 V are connected to the auxiliary NC contact of main power air switch. When the air switch is disconnected, external three-phase mains power will be cut off and emergency rescue will not be started.
Pin12	USER_GND	Power output 24 V negative
Pin6	X1 forced rescue input signal	After one rescue by ARD, if X1 is still valid (connecting X1 to 24 V), ARD will start a second forced rescue usually used for electrical brake release.

Smile100
Door Operator Controller

Product Features

- Integrated closed-loop control for syn. and asyn. motors
- Ultra-thin design with superior UI
- IP21 protection and noiseless operation
- Safe and efficient communication control
- One-key commissioning and automatic curve generation
- Door vane distance learning, deriving more accurate and smoother running curves
- Enhanced protection for overvoltage, undervoltage, overcurrent, inter-phase short circuit, output phase loss and anti-clamping upon power-off
- Self-adaptive holding torque to maintain dynamic balance of the door system
- Inertia identification of door system: measures kinetic energy, friction, self-closing force and the like automatically, then regulates the drive output

Technical Specifications

Electrical Specifications	
Input voltage	Single-phase: 200 to 240 V, fluctuation no more than ±10%
Input frequency	50/60 Hz ±5%
Output voltage	0 to input voltage
Output frequency	0 to 99.99 Hz
Control Features	
Control mode	Sensorless vector control (SVC); Feedback vector control (FVC)
Speed regulation range	1:100 (SVC); 1:1000 (FVC)
Speed regulation accuracy	±5% (SVC); ±0.05% (FVC)
Startup torque	0.5 Hz, 180% rated torque (SVC); 0 Hz, 180% rated torque (FVC)
Frequency setting	Through operating panel
Resolution	Frequency: 0.00 Hz; current: 0.01 A
Overload Capacity	1 minute for 150% rated output current, 1 second for 180% rated output current

Function	
Control mode	1. During control of asyn. AC motors, motor parameters can be dynamically tuned 2. During control of PM syn. AC motors, both no-load and with-load methods can be performed to auto-tune motor parameters and encoder zero position 3. Normal ABZ encoders can be used together to achieve the closed-loop vector control of PM syn. AC motors 4. Able to receive open-collector and push-pull encoder input signals 5. Equipped with distance control and speed control 6. Door width auto-tuning, auto cyclic demonstration, automatic identification upon hindering, parameter upload and download (optional operating panel)
Protective function	Overload protection, overvoltage protection, undervoltage protection, overcurrent protection, inter-phase short circuit protection, and so on.
Input & Output	
Power supply	+24 V, maximum output current 200 mA
Digital input	DI1 to DI8 (input voltage range: 0 to 18 V ON; 18 to 24 V OFF)
Relay output	R1A/R1B/R1C, R2A/R2B/R2C, R3A/R3B/R3C Contact capacity 250 VAC /5 A, 125 VAC / 10 A or 30 VDC / 5 A
Communication	CAN, Modbus, bluetooth
Operating Display	
LED keypad (optional)	8 keys, 5 LED digital tubes, 5 unit indicators, 5 status indicators
LCD/LED	Function parameter setting, status parameter view, fault code view, and so on

Environment Features	
Operating environment	-10 to +40℃ (derating required if the ambient environment is 40℃ to 50℃) Air temperature change less than 0.5℃/min
Storage environment	-20 to 60℃
Site	Indoors without direct sunlight, dust, corrosive gas, combustible gas, oil mist, water vapour, drip or salt
Altitude	Lower than 1000 m. Derating required above 1000 m
Humidity	Less than 95%RH, non-condensing
Shock resistance	2 to 9 Hz: 3.5 m/s^2, 9 to 200 Hz: 10 m/s^2 (IEC 60721-3-3)
Protection degree	IP20
Pollution degree	2 (dry, non-conductive dust pollution)
Optional	
Operating panel	LED operating panel

Naming Rule

Smile100 - 2S - 04

1 2 3

1 Product series
Smile100 series

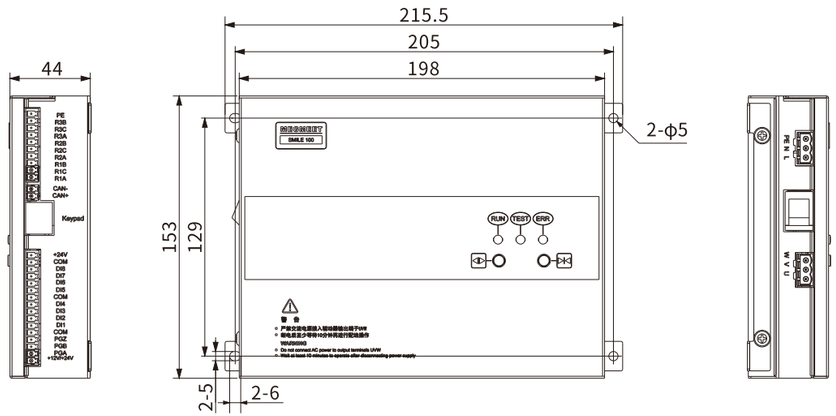
2 Voltage class
2S: Single-phase 220 V AC

3 Power rating
02: 200 W
04: 400 W

Technical Parameters

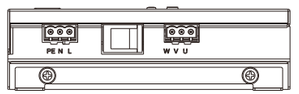
Product model	Applicable power	Rated capacity (kVA)	Rated input current (A)	Rated output current (A)
Smile100-2S0.2	200 W	0.4	2.2	1.2
Smile100-2S0.4	400 W	0.8	4.5	2.3

Installation Dimensions



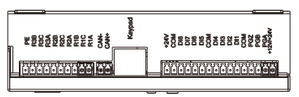
Terminal Wiring Description

Main Circuit Terminals



Mark	Name	Description
L, N	Single-phase power input terminals	Single-phase 220 V AC power input
U, V, W	Controller output terminals	Connected to a three-phase motor
PE	Grounding terminal	Grounding

Control Circuit Terminals

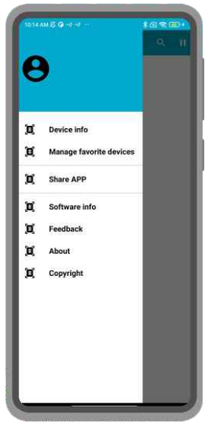


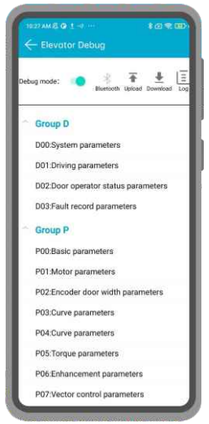
Name	Type	Mark	Function	Technical specifications
CAN	CAN	CAN+, CAN-, XCM	Communicates with car top board CAN	—
24 V	Internal 24 V power supply	+24V	24 V power supply	Power supply for the non-contact switch or encoder. Capacity: 200 mA
		COM	24 V power common	Isolated from the internal GND
PG	Encoder input	PGA	Encoder phase A	Open-collector output or push-pull output
		PGB	Encoder phase B	
		PGZ	Encoder phase Z	
DI	Digital input	DI1 to DI8	Digital signal input	Optocoupler isolation input, active low Input voltage range: 0 to 30 V DC

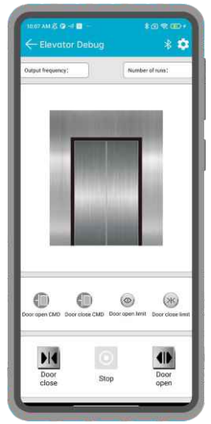
External Devices and Cables

Model	Breaker (A)	Contactor	Main circuit cable (mm²)
Smile100-2S-02	16	10	1.5
Smile100-2S-04	16	10	2.5

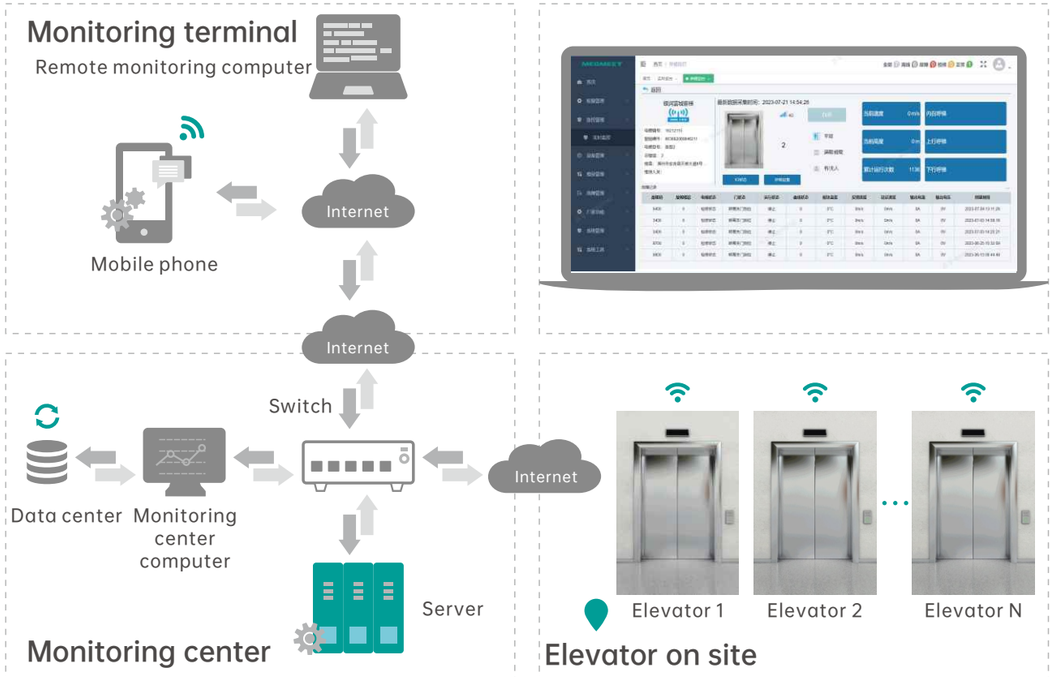
Mobile Phone App



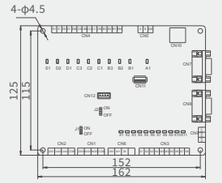
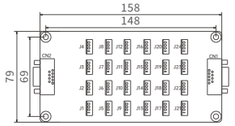
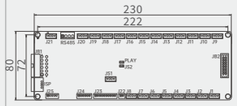
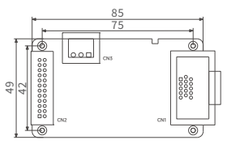
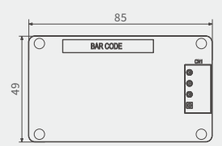


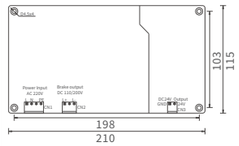
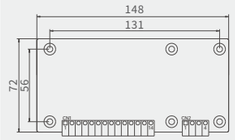
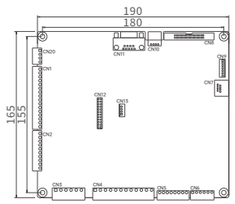
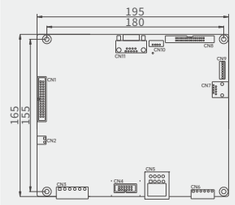
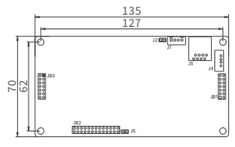
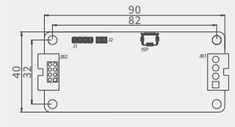


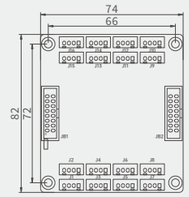
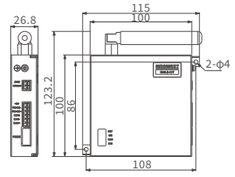
Elevator IoT Solution



System Components

System component	Appearance	Dimensions	Function
Smile3000-CTB-A Car top control board			Smile3000-CTB-A is the car top control board of Smile3000 integrated elevator controller
Smile3000-CCB-A Car control board (car call board)			Smile3000-CCB-A is the communication channel between users and the control system, which is used for button command reception and button light output
Smile3000-CCB-B Car control board			Communicates with CTB, collects input commands in the car and outputs information for display Optional SD card to achieve voice comforting and voice announcer
Smile3000-PG-S Encoder PG card 1			Sin/Cos encoders
Smile3000-PG-P Encoder PG card 2			Compatible with push-pull or open-collector incremental encoders

System component	Appearance	Dimensions	Function
ML800-CBP Power board			Input voltage: 220 VAC (-10% to +15%), 50 Hz / 60 Hz Output: 1. Brake power supply DC 110 V (±10%) 6 A (strong excitation 2 s), reduced-voltage holding 3 A (elevator working condition); 110 V holding voltage output adjustable 70% to 90% 2. Switch power supply DC 24 V (±10%) Rated current: 5A
Smile3000-SCB-A UCMP board			Detects the unintended movement of car, and performs pre-open of door
Smile3000-MCB-A Elevator main control board			Smile3000-MCB main control board is compatible with Smile3000 series products, which is used to receive and perform shaft and car signals
Smile3000-MCB-B Elevator main control board			Smile3000-MCB main control board is compatible with Smile3000 series products, which is used to receive and perform shaft and car signals
Smile3000-CTB-B Car top control board			Communicates with the MCB board and CCB board to control signals from door system
Smile3000-CPB-A Pit board			Communicates with MCB, and controls elevator running during pit inspection

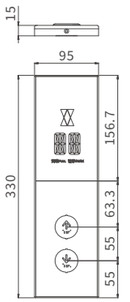
System component	Appearance	Dimensions	Function
Smile3000-CEB-A Car control expansion board			Used together with Smile3000, enabling control up to 48 floors
Smile-IoT IoT module			Smile-IOT is used for monitoring the elevator system, which can collect running parameters, transmit information and trigger alarm automatically. The maintenance personnel can monitor the elevator running status remotely in real time through the Megmeet elevator IoT platform
MGMT-HCB-D-BO Display board		4.3-inch	Dot matrix display
MGMT-HCB-D5 Display board		4.3-inch	Segment code display
MGMT-HCB-L-BO Display board		4.3-inch	LCD
MGMT-CCB-D5-SX Display board		6.4-inch vertical	Segment code display

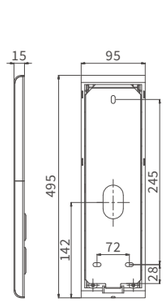
System component	Appearance	Dimensions	Function
MGMT-CCB-D5-HX Display board		6.4-inch horizontal	Segment code display
MGMT-CCB-L-SX Display board		6.4-inch vertical	LCD
MGMT-CCB-L-HX Display board		6.4-inch horizontal	LCD
MGMT-CCB-T Display board		8/10.4/12.1-inch	Image display

Standard Elevator Human-Machine Interface

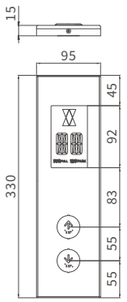
Individual Wall-Mounted HOP

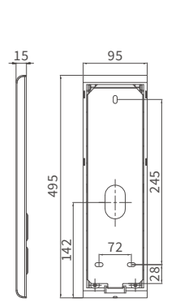

HOP-G02
White segment code


HOP-G02
Panel layout

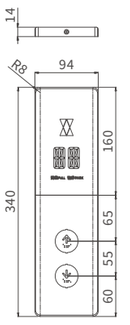

HOP-G02
Back plate fixation

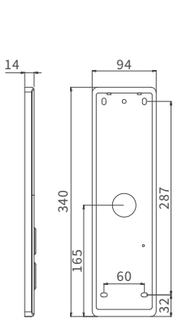

HOP-G03
White segment code


HOP-G03
Panel layout


HOP-G03
Back plate fixation

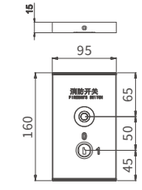

HOP-G01
White segment code

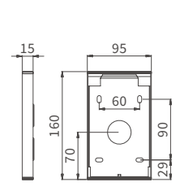

HOP-G01
Panel layout


HOP-G01
Back plate fixation


BX-FJ01
Single
fire emergency


BXS-FJ01
Single fire emergency
+ Elevator lock


BXS-FJ01
Panel layout

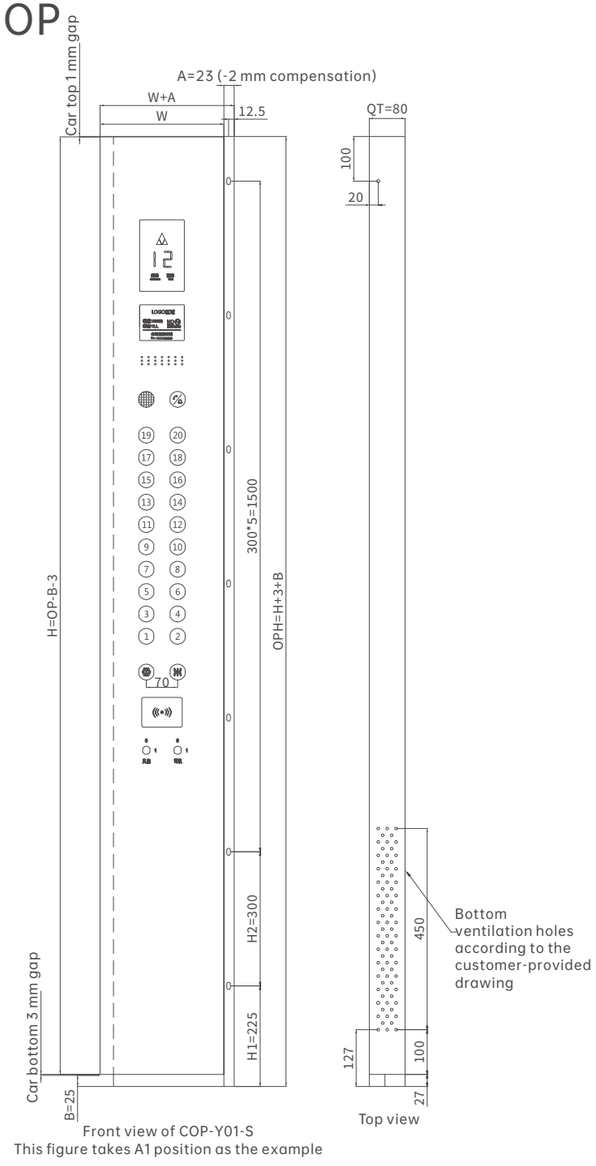

BXS-FJ01
Back plate fixation

Product name	Individual wall-mounted HOP	Individual wall-mounted HOP	Individual wall-mounted HOP	Individual wall-mounted HOP	Individual wall-mounted HOP
Model	HOP-G02	HOP-G03	HOP-G01	BX-G01	BXS-G01
Floor setting	All floors	All floors	All floors	Main floor	Main floor
Dimensions (mm)	330*95*15	330*95*15	340*94*14	160*95*15	160*95*15
Installation	Wall-mounted	Wall-mounted	Wall-mounted	Wall-mounted	Wall-mounted
Panel material	Stainless steel composite	All stainless steel	Stainless steel composite	All stainless steel	All stainless steel
Included display	4.3-inch segment code, dot-matrix display included. Optional: 4.3-inch monochrome LCD			/	/
Display window material	Black half-transparent or transparent acrylic			/	/
Included button	LB-01X, round microstroke button with white light, as the standard configuration Optional light: blue, red. Optional button character: braille			/	/
Included main floor lock	S1929C type main floor lock			/	S1929C type main floor lock
Included fireman's switch	/	/	/	HBP-12 self-lock switch	HBP-12 self-lock switch

Integrated Standard COP

COP-Y01-S-Standard type

COP-Y01-M-TFT type



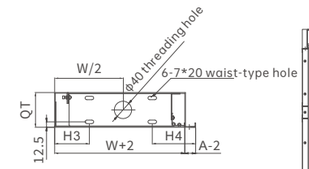
Front view of COP-Y01-S
This figure takes A1 position as the example

Top view

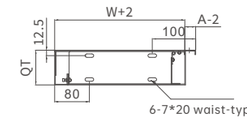
Front wall net width W (mm)	Display type and description	Installation direction
W ⩽ 250 mm	4.3-inch dot matrix/segment code/LCD, 6.4-inch segment code/LCD, 7/8/10.1-inch image	Vertical installation/display
W ⩾ 251 mm	6.4-inch segment code/LCD, 7/8-inch image	Horizontal installation/display
W ⩾ 301 mm	10.1/10.4-inch image, video and multi-media	Horizontal installation/display
W ⩾ 401 mm	12.1/15-inch image, video and multi-media	Horizontal installation/display
W ⩾ 501 mm	Most image, video and multi-media displays in the market	All suitable for horizontal installation/display

Car Top Positioning and Installation

Top & Bottom Installation Holes of COP

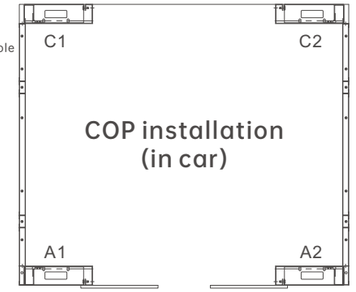


Integrated COP top installation hole (up outgoing line)



Integrated COP top installation hole (without up outgoing line)

COP installation position



How to define the installation position:
Car outside left:
COP at people's left as people stand outside and face to the car.
Car outside right:
COP at people's right as people stand outside and face to the car.

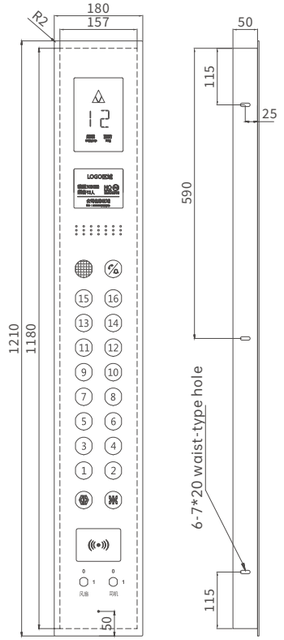
COP-Y01-S front wall integrated COP parameters

COP total height (OPH)	
COP panel net height (H)	
COP panel net width (W)	
COP side-wall bracket width (A)	
COP panel total thickness (QT)	
COP earth decoration thickness (B)	
Distance between car bottom and the first mounting hole of bottom box (H1)	
Distance between mounting holes on side wall (H2)	
Distance between COP top/bottom left edge and left mounting hole of bottom box (H3)	
Distance between COP top/bottom right edge and right mounting hole of bottom box (H4)	
COP installation position (refer to left figure)	

Note: The above variable parameters shall be filled by the customer according to the actual dimensions of car. Our company will manufacture the COP based on the parameters provided in the order.

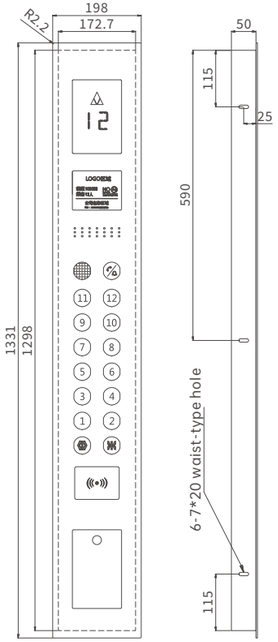
Product name	Front wall integrated standard COP - inspection lock version	Front wall integrated standard COP - inspection box version
Model	COP-Y01-S	COP-Y01-M
Floor	2 to 36 floors	2 to 36 floors
Installation	Front wall rollover integrated: left/right front walls (when people stand outside and face to the car, the left front wall means COP is at people's left, and the right front wall means COP is at people's right)	
Panel material	SUS304 hairline stainless steel, default: short hairline, thickness 1.2 mm + lining plate	
Nameplate	Stainless steel/Acrylic individual nameplate, UV printing or laser marking	
Included display	6.4-inch segment code, dot matrix as the standard configuration. Optional: 6.4-inch monochrome LCD, 7-inch TFT, 8-inch TFT, 10.4-inch TFT and the like	
Display window material	Black half-transparent or transparent acrylic	
Included button	LB-12S (round microstroke button with white light) as the standard configuration (optional light: blue, red; optional button character: braille)	
Inspection	2 inspection locks as the standard configuration, default: fan and attendant	Inspection box as the standard configuration, with the side opening inspection door
Included intercom	Four-wire/two-wire, five-party slave intercom	
Included IC card	Optional IC card installation (installation position already reserved in the panel. Note in your order)	
Included emergency light	LD-12S (round emergency light with white light) as the standard configuration, DC 12 V	
Voice announcer	Optional (note in your order. For image/video displays, voice announcer is already built in)	

Split-Type Standard COP



COP-Q01-S
Suitable for 2 to 16 floors

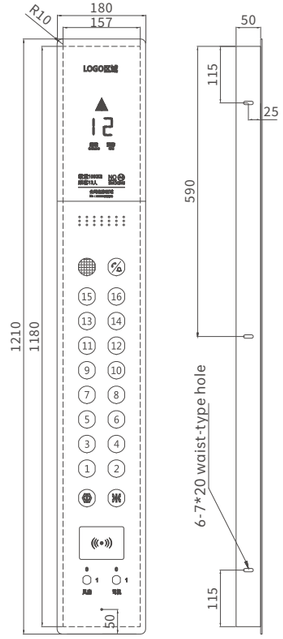
COP-Q01-S
Panel layout



COP-Q01-M
Suitable for 2 to 12 floors

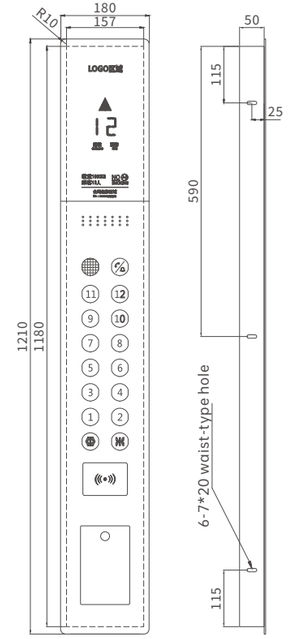
COP-Q01-M
Panel layout

Product name	Split-type standard passenger elevator COP - inspection lock version		Split-type standard passenger elevator COP - inspection lock version	
Product model	COP-Q01-S-P1	COP-Q01-S-P2	COP-Q01-M-P1	COP-Q01-M-P2
Floor setting	2 to 16 floors	17 to 30 floors	2 to 12 floors	17 to 30 floors
Panel dimensions (mm)	1210*180*2	1370*210*2	1210*180*2	1370*210*2
Bottom box dimensions (mm)	1180*157*50	1340*187*50	1180*157*50	1340*187*50
Installation	Bottom box embedded, panel and bottom box withdrawing fixed, and panel locked through built-in screws at its bottom			
Panel material	Combination of SUS304 hairline stainless steel and acrylic, default hairline, thickness 2 mm			
Nameplate	Stainless steel/Acrylic individual nameplate, UV printing or laser marking			
Included display	4.3-inch segment code, dot matrix as the standard configuration; optional: 6.4-inch segment code, 6.4-inch LCD and 7-inch colorful image display			
Display window material	Black half-transparent or transparent acrylic			
Included button	LB-12S (round microstroke button with white light) as the standard configuration (optional light: blue, red; optional button character: braille)			
Inspection lock	2 inspection locks as the standard configuration, default: fan and attendant	Inspection box as the standard configuration, with the side opening inspection door		
Included intercom	Four-wire/two-wire, five-party slave intercom			
Included IC card	Optional IC card installation (installation position already reserved in the panel. Note in your order)			
Included emergency light	LD-12S (round emergency light with white light) as the standard configuration, DC 12 V			
Voice announcer	Optional (note in your order. For image/video displays, voice announcer is already built in)			



COP-Q02-S
Suitable for 2 to 16 floors

COP-Q02-S
Panel layout



COP-Q02-M
Suitable for 2 to 12 floors

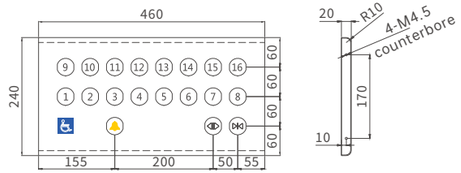
COP-Q02-M
Panel layout

Product name	Split-type standard passenger elevator COP - inspection lock version		Split-type standard passenger elevator COP - inspection lock version	
Product model	COP-Q02-S-P1	COP-Q02-S-P2	COP-Q02-M-P1	COP-Q02-M-P2
Floor setting	2 to 16 floors	17 to 30 floors	2 to 12 floors	17 to 30 floors
Panel dimensions (mm)	1210*180*3	1370*210*3	1210*180*3	1370*210*3
Bottom box dimensions (mm)	1180*157*50	1340*187*50	1180*157*50	1340*187*50
Installation	Bottom box embedded, panel and bottom box withdrawing fixed, and panel locked through built-in screws at its bottom			
Panel material	SUS304 hairline stainless steel, default: hairline, thickness 2 mm			
Nameplate	Acrylic nameplate integrated on the display window, UV printing or silk-screen printing			
Included display	4.3-inch segment code, dot matrix as the standard configuration; optional: 6.4-inch segment code, 6.4-inch LCD and 7-inch colorful image display			
Display window material	Black half-transparent or transparent acrylic			
Included button	LB-12S (round microstroke button with white light) as the standard configuration (optional light: blue, red; optional button character: braille)			
Inspection lock	2 inspection locks as the standard configuration, default: fan and attendant	Inspection box as the standard configuration, with the side opening inspection door		
Included intercom	Four-wire/two-wire, five-party slave intercom			
Included IC card	Optional IC card installation (installation position already reserved in the panel. Note in your order)			
Included emergency light	LD-12S (round emergency light with white light) as the standard configuration, DC 12 V			
Voice announcer	Optional (note in your order. For image/video displays, voice announcer is already built in)			

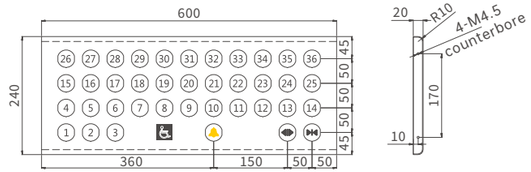
Wall-Mounted Standard COP for the Disabled

COP-GC01-P1
Suitable for 2 to 16 floors

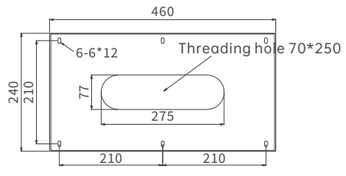
COP-GC01-P2
Suitable for 17 to 36 floors



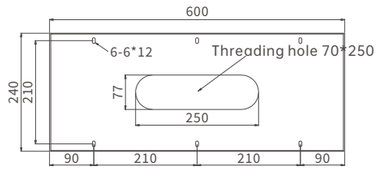
COP-GC01-P1
Panel layout



COP-GC01-P2
Panel layout



COP-GC01-P1
Back plate fixation



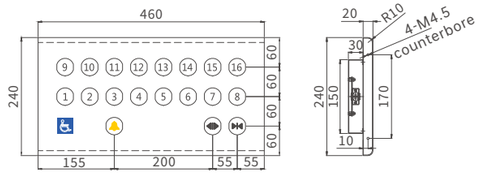
COP-GC01-P2
Back plate fixation

Product name	Wall-mounted standard COP for the disabled - without bottom box	
Product model	COP-GC01-P1	COP-GC01-P2
Floor setting	2 to 16 floors	17 to 36 floors
Panel dimensions (mm)	460*240*20	600*240*20
Bottom box dimensions (mm)	Without bottom box	Without bottom box
Installation	Back plate fixed to the car wall and covered by the panel, and then secured by bolts at two sides	
Panel material	SUS304 hairline stainless steel, stainless steel caps at two sides	
Sign for the disabled	Included on the panel as a whole, UV printing or laser marking	
Included button	LB-12S (round microstroke button with white light) as the standard configuration (optional light: blue, red)	
Included button cable	5 meters of RVV4*0.3 cables, connecting the car control board box to the car top	

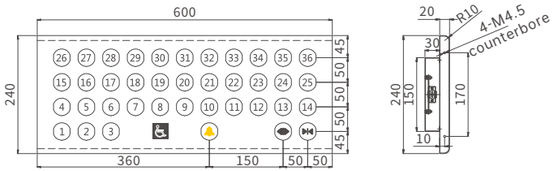
Embedded Standard COP for the Disabled

COP-QC01-P1
Suitable for 2 to 16 floors

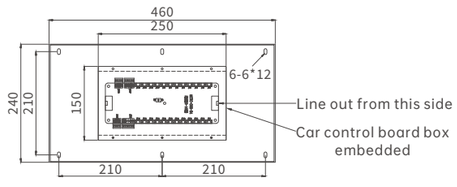
COP-QC01-P2
Suitable for 17 to 36 floors



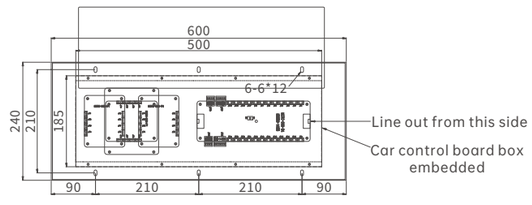
COP-QC01-P1
Panel layout



COP-QC01-P2
Panel layout



COP-QC01-P1
Back plate fixation



COP-QC01-P2
Back plate fixation

Product name	Embedded standard COP for the disabled - with bottom box	
Product model	COP-QC01-P1	COP-QC01-P2
Floor setting	2 to 16 floors	17 to 36 floors
Panel dimensions (mm)	460*240*20	600*240*20
Bottom box dimensions (mm)	260*150*30 (car wall opening each side + 1.5 mm)	500*185*30 (car wall opening each side + 1.5 mm)
Installation	Back plate fixed to the car wall and covered by the panel, and then secured by bolts at two sides	
Panel material	SUS304 hairline stainless steel, stainless steel caps at two sides	
Sign for the disabled	Included on the panel as a whole, UV printing or laser marking	
Included button	LB-12S (round microstroke button with white light) as the standard configuration (optional light: blue, red)	
Included button cable	Standard cables connected to the car control board, and cables of the board connected to the car top at one side	

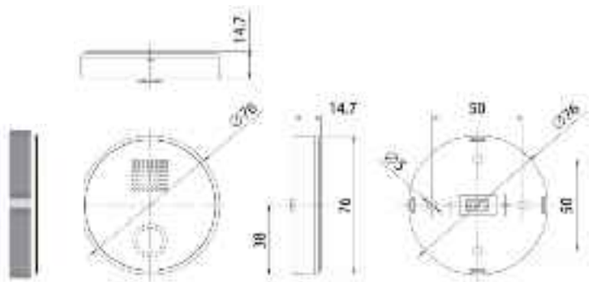
Villa Elevator HOP

Product Features

- Installation method: all GB series HOP are wall-mounted without a bottom box. The back plate is fixed to the wall, and the panel is fixed to the back plate. The bottom part is secured by stainless steel countersunk screws or buckled.
- Product materials: all GB series HOP are constructed as one piece, with various frame materials like stainless steel, zinc alloy, and aluminum alloy. Panels are made of stainless steel, tempered glass and others all through, solid and nice-looking.
- Button display: GBC01/GBJ01 included buttons are described in this part. Optional display screens include 4.3-inch dot matrix, segment code, monochrome LCD, TrueColor LCD, and so on. Display and buttons are integrated as a whole.
- Application: GB series HOP applies to all series of villa elevator projects. For details, you can ask for more materials from our salespersons or technical engineers.

HOPB-GBYC01-H
Black glass/
White dot matrix

HOPB-GBYC01-Y
Smoky gray glass/
White dot matrix



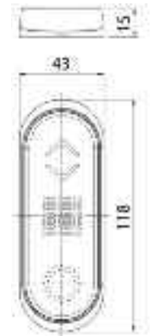
HOPB-GBYC01
Panel layout

HOPB-GBYC01
Panel fixation

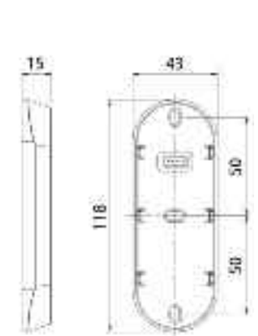
HOPB-GBC01-H
Black glass/
White segment code

HOPB-GBC01-B
White glass/
Blue LCD

HOPB-GBC01-Y
Smoky gray glass/
Colorful LCD



HOPB-GBC01
Panel layout



HOPB-GBC01
Panel fixation

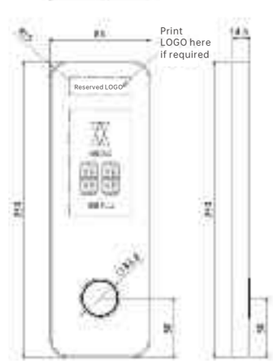
HOPB-GBC01
Panel layout

HOPB-GBC01
Panel fixation

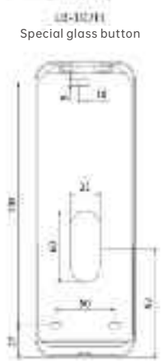
HOPB-GB01-H
Black glass/
White segment code

HOPB-GB01-B
White glass/
Blue LCD

HOPB-GB01-Y
Smoky gray glass/
Colorful LCD

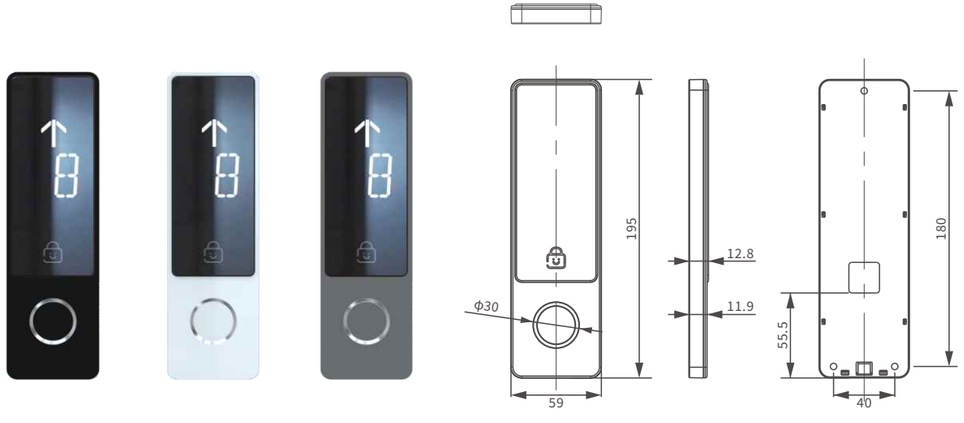


HOPB-GB01
Panel layout



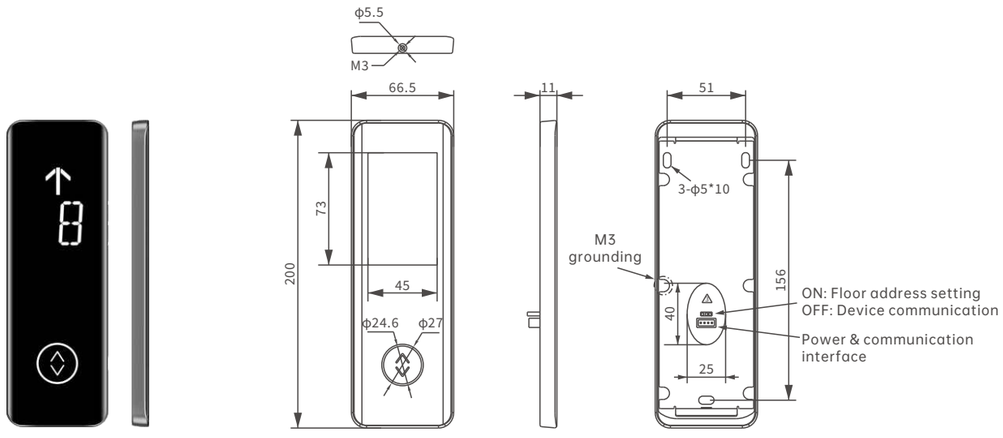
HOPB-GB01
Panel fixation

Mx-LOP12-DSxx (Light Luxury Style)



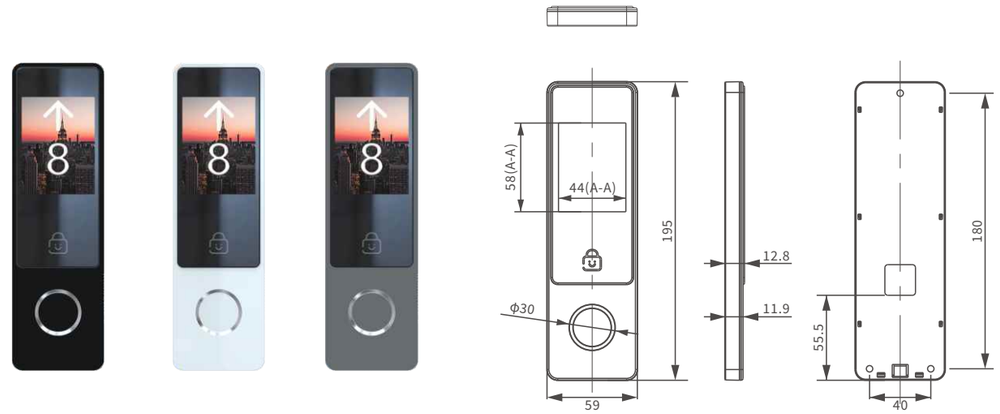
Panel	Frame	Frame color	Display	Button	Installation	Interface
Tempered glass	IML plastic	Black/White/Orange/ Blue/Gray/Green/Purple	3.2-inch segment code	Touch button	Wall-mounted	RS485/CAN

Mx-LOP13-DSxx (Porsche Style)



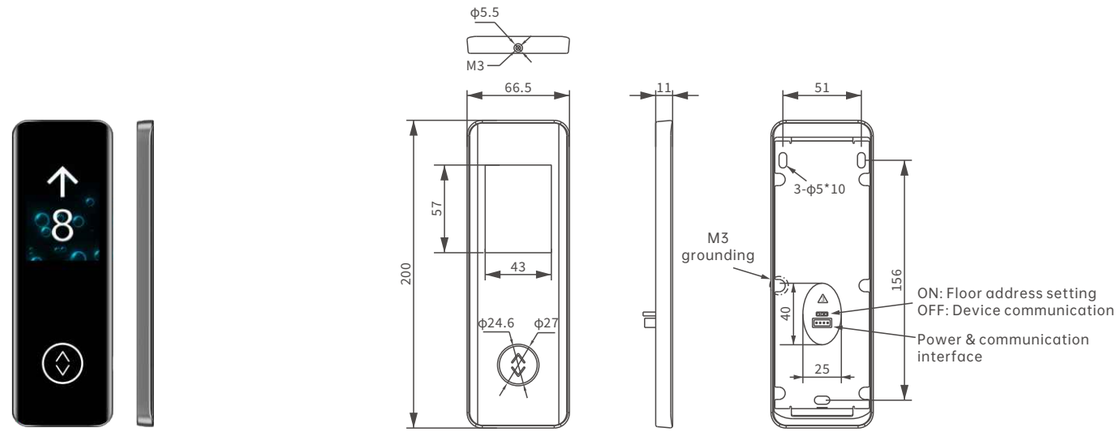
Panel	Frame	Frame color	Display	Button	Installation	Interface
Tempered glass	Aluminum alloy	Black	3.2-inch segment code	Touch button	Wall-mounted	RS485/CAN

Mx-LOP02-DSxx (Light Luxury Style)



Panel	Frame	Frame color	Display	Button	Installation	Interface	Resolution
Tempered glass	IML plastic	Black/White/Orange/ Blue/Gray/Green/Purple	2.8-inch LCD	Touch button	Wall-mounted	RS485/CAN/RSL	240*320

Mx-LOP03-DSxx (Porsche Style)



Panel	Frame	Frame color	Display	Button	Installation	Interface	Resolution
Tempered glass	Aluminum alloy	Black	2.8-inch LCD	Touch button	Wall-mounted	RS485/CAN	240*320

Villa Elevator Split-Type COP

Horizontal, Glass

Product Features

- Installation and inspection: with bottom box for split-type, panel buckled, and inspection lock by default
- Relevant component: optional microstroke and touch buttons, 4.3-inch horizontal display by default
- Optional function: one-touch card wireless calling module depending on your needs
- Application: applicable for home elevators, with various glass colors to choose

COPB-QB02-H

COPB-QB02-B

Product model	Floor	Split-type panel	Bottom box dimensions (A*B*D)	Panel material	Included button
COPB-QB02-H	2-6	170*445*5	160*435*35	Black glass	Microstroke
COPB-QB02-B	2-6	170*445*5	160*435*35	White glass	Touch

Vertical, Glass

Product Features

- Installation and inspection: with bottom box for split-type, panel buckled/withdrawing fixed, and inspection lock by default
- Relevant component: multiple microstroke buttons as options. Various kinds of displays based on the bottom box dimensions
- Optional function: IC card swipe, voice announcer and other devices depending on your needs
- Application: applicable for home elevators, with various stainless steel materials to choose

COPB-Q01
Optional: no bottom box
Wall-mounted

COPB-Q02
Optional: no bottom box
Wall-mounted

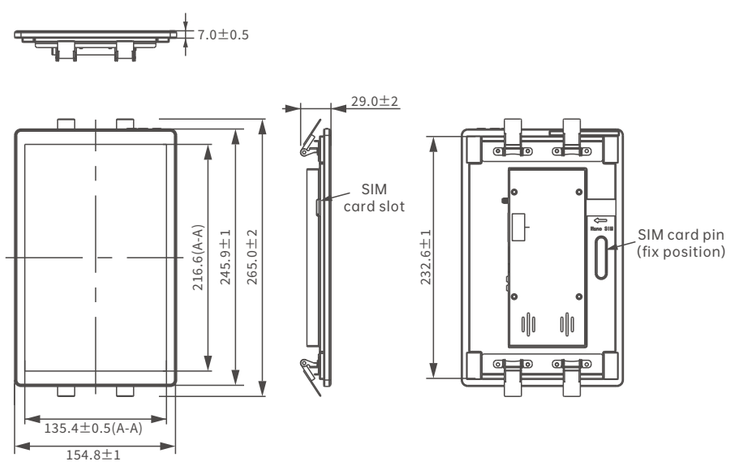
COPB-QB01-H
Optional: no bottom box
Wall-mounted

COPB-QB01-B
Optional: no bottom box
Wall-mounted

Product model	Floor	Split-type panel	Wall-mounted panel	Bottom box dimensions	Panel material	Included button
COPB-Q01	2-6	800*160*8	800*160*22	770*140*40	Stainless steel composite	Microstroke
COPB-Q02	2-6	800*160*8	800*160*22	770*140*40	All stainless steel	Microstroke
COPB-QB01-H	2-6	650*160*8	650*160*22	620*140*40	Black glass	Microstroke
COPB-QB01-B	2-6	650*160*8	650*160*22	620*140*40	White glass	Touch

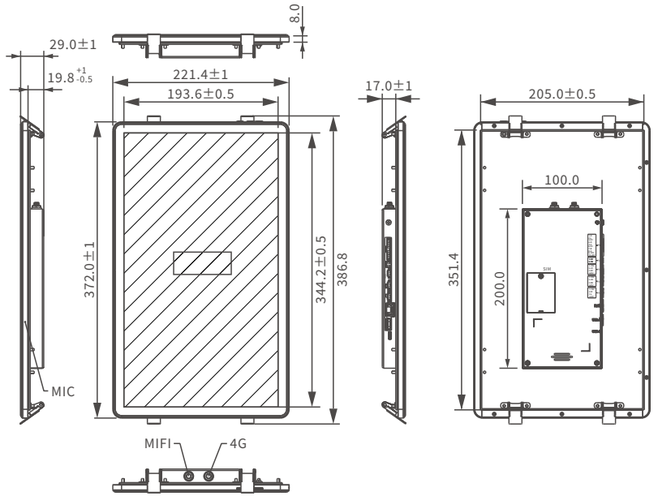
Villa Elevator Car Touch Screen

MTN101S2-DS01-V4 (10.1-Inch Home Elevator Touch Screen Pad)



Panel	Panel color	Frame	Resolution	Viewing angle	Update	Communication	Installation	Dimensions
Tempered glass	Black	Plastic, gun gray	1280*800	80/80/80/80	USB	RS485/CAN/ RSL/RJ45	Semi-embedded (retaining spring)	10.1-inch

MTN156S2-DSxx-V4 (15.6-Inch Home Elevator Touch Screen)



Panel	Panel color	Frame	Resolution	Viewing angle	Update	Communication	Installation	Dimensions
Tempered glass	Black/White	Aluminum alloy	1920*1080	89/89/89/89	USB	RS485/CAN/ RSL/RJ45	Semi-embedded front installation (retaining spring)	15.6-inch