MEGMEET

Power Solutions

- ☐ Communication power supply
- ☐ Server power supply
- ☐ Electric power supply
- ☐ Medical power supply
- ☐ High voltage power supply
- ☐ Display power supply
- ☐ Photovoltaic (PV)
- ☐ Energy storage system
- ☐ Charging pile components
- ☐ OA power supply
- ☐ Flat-panel power supply

Industrial Automation

- ☐ AC drive
- ☐ Servo system
- ☐ Control system
- ☐ Sensor
- ☐ Internal gear pump
- ☐ Industrial IoT
- ■ Integrated elevator controller
- ☐ Engineering vehicle controller

EV & Railway Solutions

- ☐ In-vehicle integrated charging system
- ☐ Motor controllers
- ☐ All-in-one high voltage integrated drive
- ☐ EV compressor
- ☐ Thermal management system
- ☐ Rail transit air conditioning controller
- ☐ Frequency converter
- ☐ PFC

Intelligent Equipment

- ☐ Intelligent digital welding machine
- ☐ Industrial microwave equipment
- ☐ Intelligent oil production system of electric submersible progressing cavity pumping (ESPCP)

Home Appliance Control Solutions

- ☐ HVAC
- ☐ Cold chain
- ☐ Washing (Drying) machines
- ☐ Kitchen appliance
- ☐ Smart bidet

Precision Connection

- ☐ FFC
- ☐ FPC
- ☐ Coaxial line
- ☐ Magnet wire
- ☐ SQ common-mode inductor

SHENZHEN MEGMEET ELECTRICAL CO., LTD.

Add: 5th Floor, Block B, Unisplendour Information Harbor, Langshan Rd., Science & Technology Park, Nanshan District, Shenzhen, 518057, China

Add: 34th Floor, High-tech Zone Union Tower, No.63 Xuefu Road, Nanshan District, Shenzhen, 518057, China

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MEGMEET

SMILE3000-V

Integrated Control Cabinet for Home Elevators

Global Leading Solution Provider In Electrical Automation

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ABOUT MEGMEET

Megmeet (stock code: 002851) is a comprehensive solution provider in the field of electrical automation, integrating software and hardware R&D, production, sales and services. Mastering the core technologies in electrical automation, we are engaged in six core business areas: Industrial Automation, EV & Railway Solutions, Intelligent Equipment, Power Solutions, Home Appliance Control Solutions, and Precision Connection.

Megmeet has established a strong R&D, manufacturing, marketing and service platform, empowered by an active team of more than 7300 employees, among which more than 2600 work as R&D engineers. We have set up R&D centers in cities including Shenzhen, Zhuzhou, Changsha, Wuhan, Xi'an, Hangzhou, Taizhou (Zhejiang) and Chengdu, as well as research institutes in Germany, Sweden and the United States. We have also established manufacturing centers in Zhuzhou, Heyuan, Dongguan, Hangzhou, Taizhou (Zhejiang) and Yiwu, as well as factories in Thailand and India. Our marketing and service resources have been allocated to the United States, Japan, South Korea, Germany, Poland, Romania, Sweden, Türkiye, India, as well as Southeast Asia.

To ensure a better living environment for all human beings, Megmeet will continue the effort to improve the efficient use of electricity, promote clean energy, and maximize production efficiency in the pursuit of a world-leading position in the power electronics industry.

2600+
R&D Personnel

10
R&D Centers

8
Manufacturing Bases

7300+
Staff

1700+
Patents and IP rights

Smile3000-V Integrated Control Cabinet for Home Elevators

Megmeet Smile3000-V series integrated control cabinet for home elevators is developed on a new core hardware platform, designed with delicate structure, and optimized for motor control to achieve the drive integration of asynchronous motors and PM synchronous motors. It is featured with modular expansions and compatible with multiple kinds of encoders. The cabinet allows you to plan flexible S-ramps as well as special logic control for elevators, enhancing control performance, improving safety and reliability, and making commissioning much easier.

Slim and Beautiful

Integrated and Efficient

Quiet and Comfortable

Safe and Reliable

Easy and Intelligent

Naming Rule

Smile3000 - V - 2S 2.2

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

1 Product series

Smile3000 series

2 Controller type

V: For villa (home) elevators

3 Voltage class

2S: Single-phase 220 V power

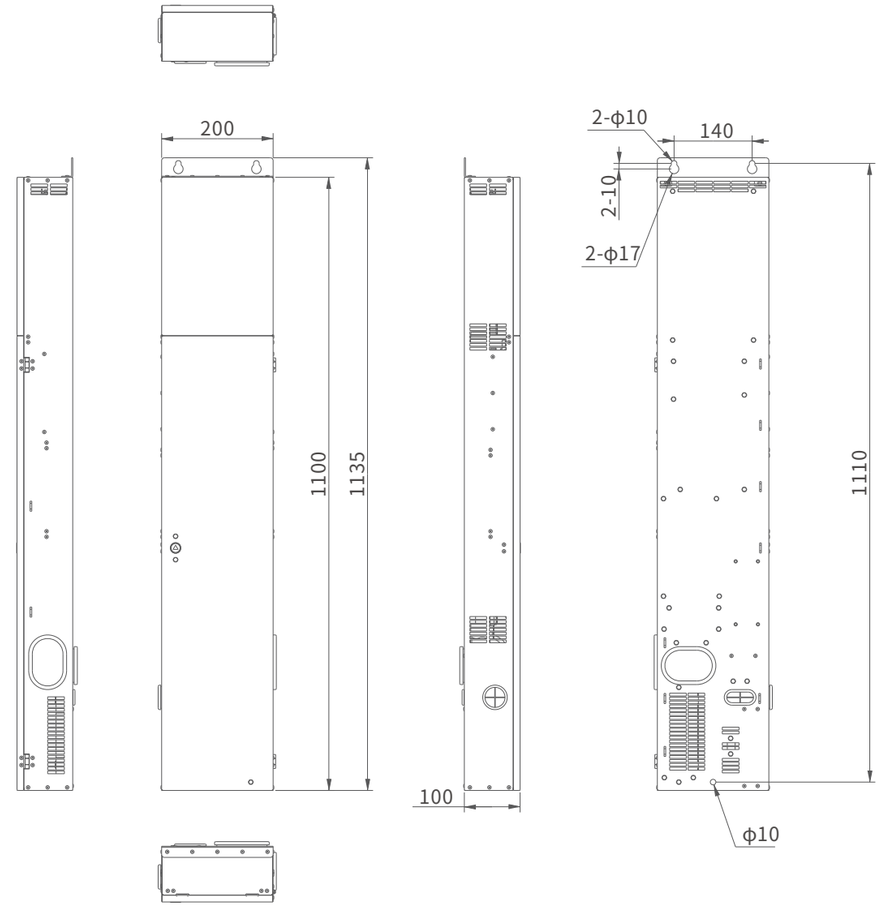
4 Rated output power

2.2: 2.2 kW

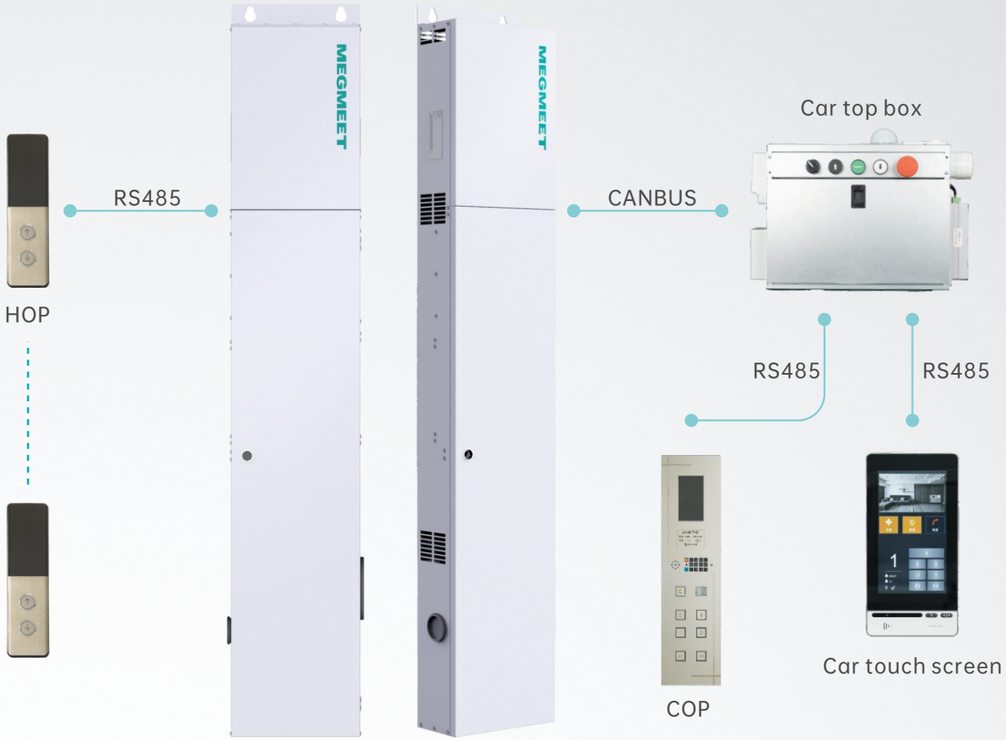
Technical Parameters

Product model	Rated input current (A)	Rated output current (A)	Applicable power (kW)	Max. resistance (Ω)	Min. resistance (Ω)	Braking resistor power (W)	Braking unit
Smile3000-V-2S2.2	17.9	12.0	2.2	58	50	1200	Built-in
Smile3000-V-2S3.7	25.3	18.0	3.7	45	37	1600	
Smile3000-V-2S5.5	34.6	23.0	5.5	32	18	2000	

Installation Dimensions



Home Elevator Solution



4 Integrated Control Cabinet for Home Elevators Selling Points

Quiet Running

- Advanced motor drive technology and elevator logic control technology
- 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 technologies
- Ultra-slim design and pleasant appearance, in harmony with home decorations

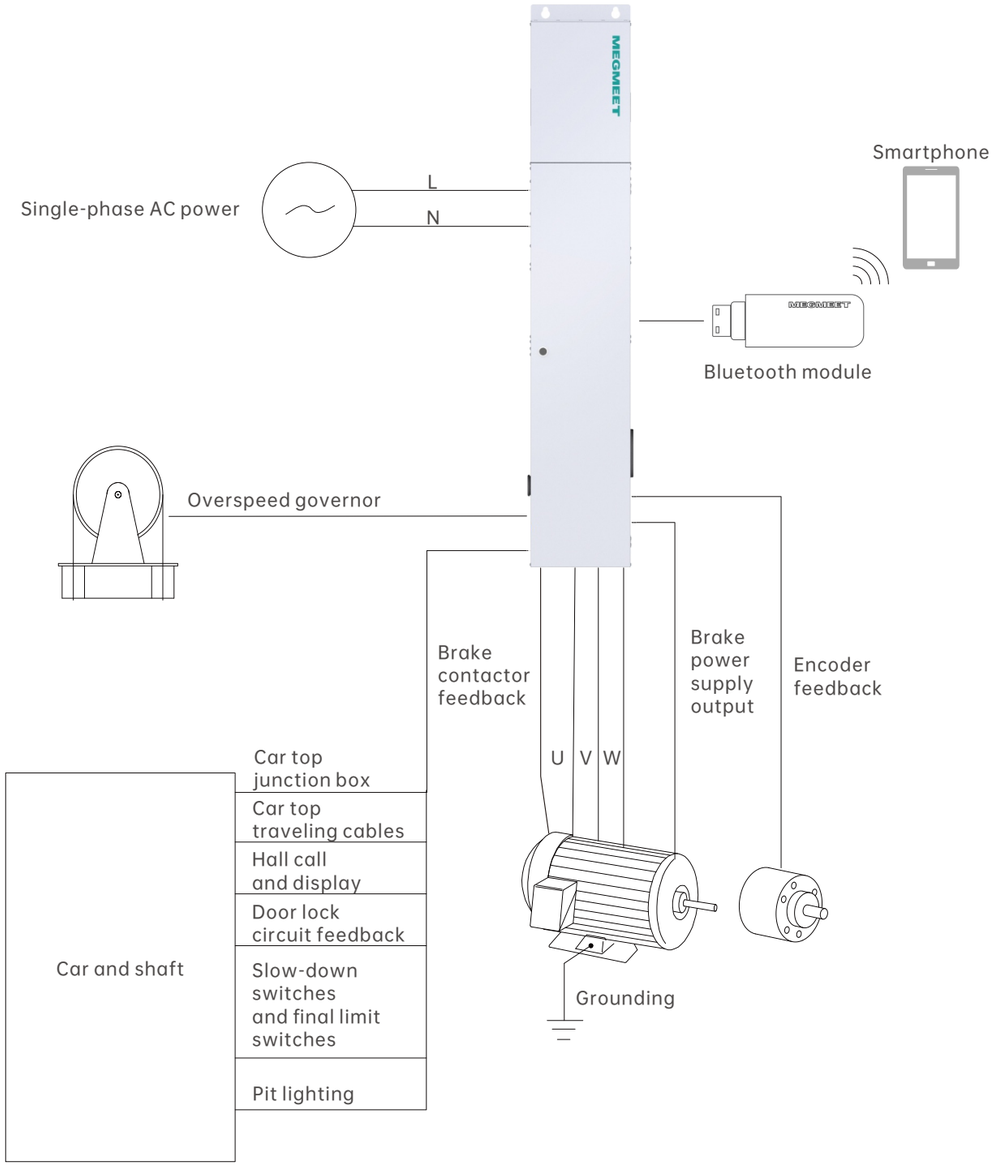
Safe and Reliable

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

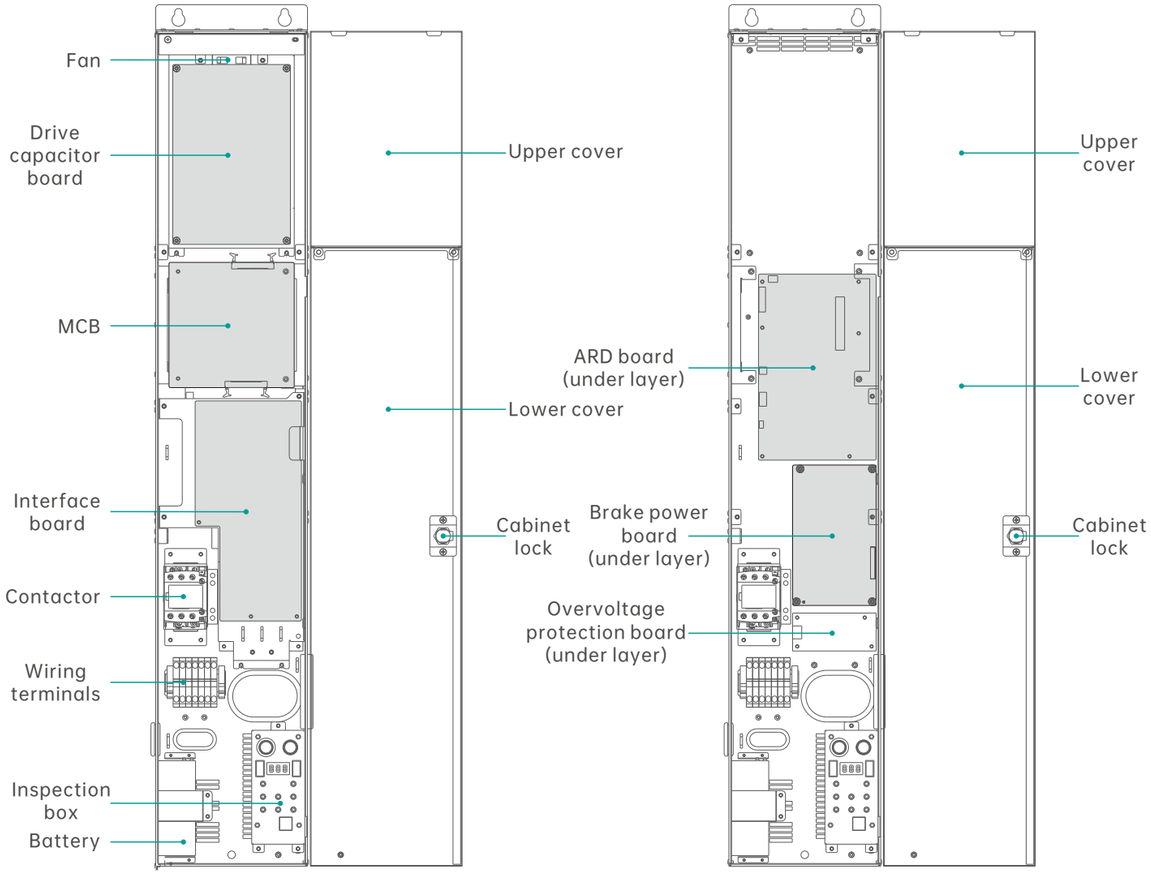
Intelligent and Easy to Use

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

System Wiring

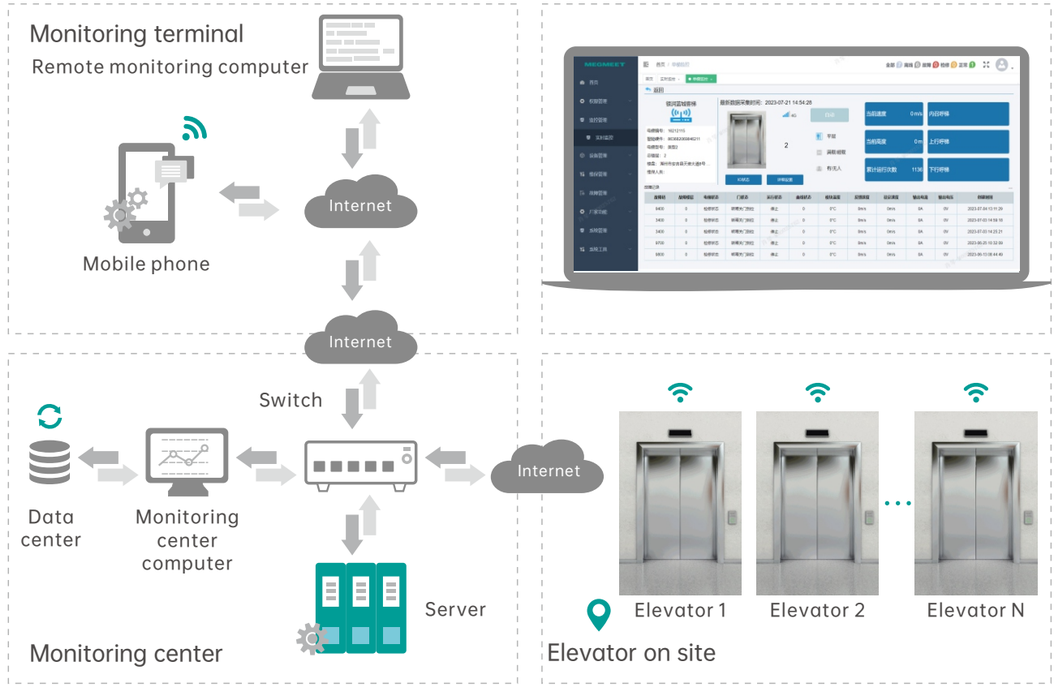


Cabinet Layout



Technical Specifications

Basic specifications	
Input voltage (V)	220 VAC control cabinet: 187 VAC to 253 VAC
Max. frequency	99 Hz
Carrier frequency	2 kHz to 16 kHz, adjusted automatically based on load features
Motor control mode	Feedback vector control (FVC)
Startup torque	0.5 Hz: 180% sensorless vector control (SVC) 0 Hz: 200% FVC
Speed range	1:100 (SVC); 1:1000 (FVC) 1:50 (V/F control)
Speed stability accuracy	±0.5% (SVC); ±0.05% (FVC)
Torque control accuracy	±5% (FVC)
Overload capacity	60 s for 150% of the rated current, 1 s for 200% of the 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 auto pre-torque compensation without a load cell
Real-time clock	Accurate real-time clock allows time-based services, automatic password and so on
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
Mobile phone App	A bluetooth module can be connected to the main control board, which allows elevator commissioning, parameter upload/download through software on the mobile phone
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	PD2
IP rating	IP20
Power distribution system	TN/TT

App + Bluetooth Module

Elevator IoT Solution