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: 202506

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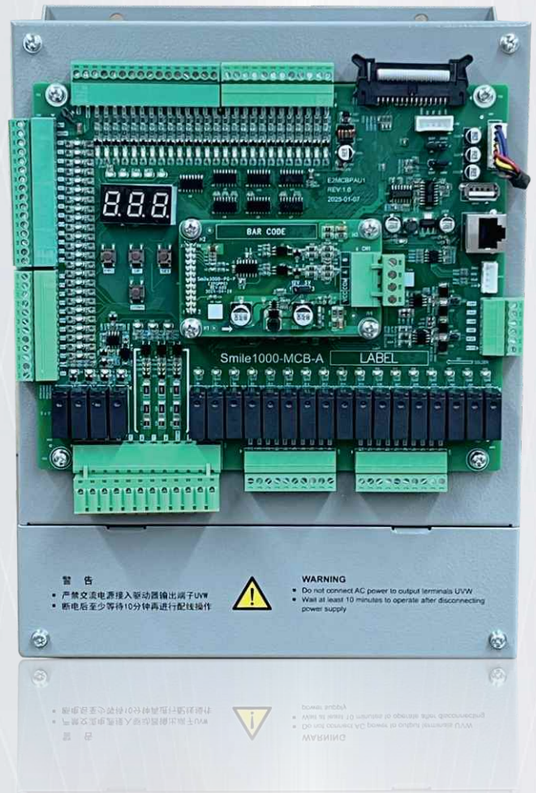
Smile1000 Series

Integrated Elevator Controller



Global Leading Solution Provider In Electrical Automation

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

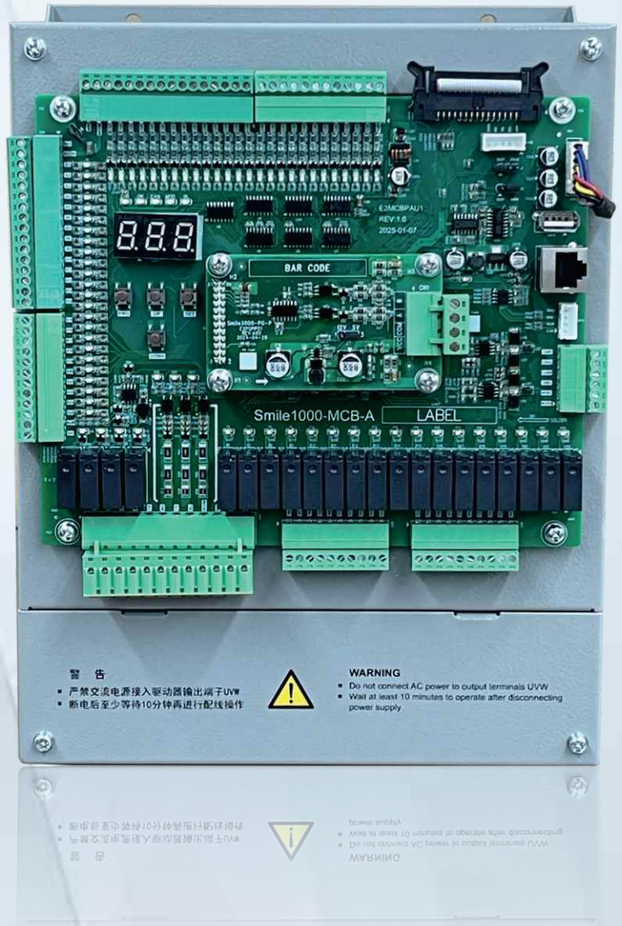
9
R&D Manufacturing Bases

7600+
Total Employees

1990+
No. of Patents & IP Rights

Smile1000 Series Integrated Elevator Controller

Smile1000 series integrated elevator controller, independently developed by Megmeet, incorporates motor drive, elevator (group) control and internet technologies to achieve intelligence. It features excellent performance, comprehensive functionality, high safety and reliability, simple operation, a streamlined control system, and high cost-effectiveness.



Main Advantages

Advanced Drive Control Technologies

- Static auto-tuning and with-load auto-tuning
- Protection against output arc hazards
- Prevention of motor runaway caused by encoder disconnection
- No-load-cell compensation technology
- User-friendly UI for parameter settings
- Compatible with mainstream systems
- Direct-to-floor distance control, raising efficiency by 30%

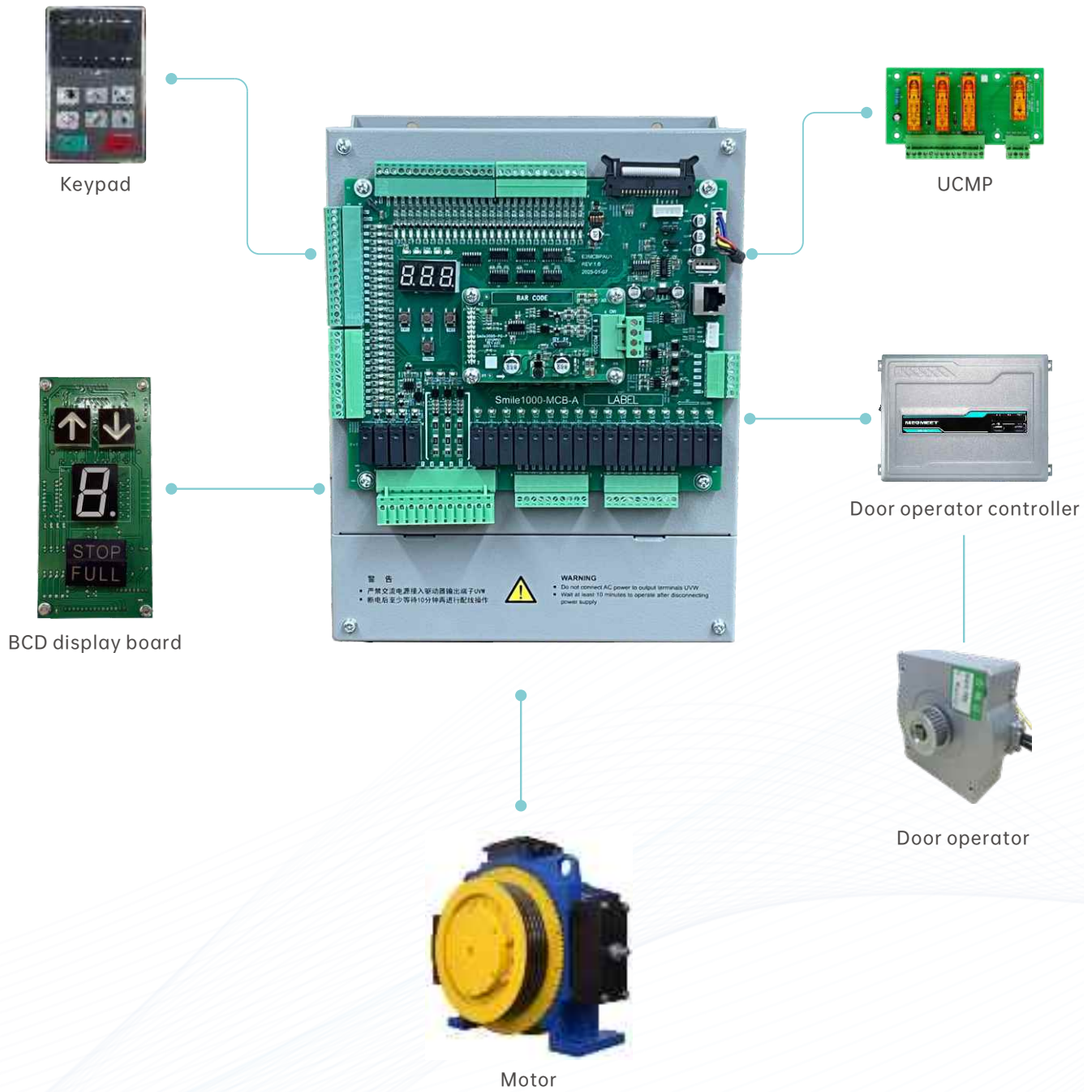
Superior Customer-Oriented Features

- Maximum elevator speed: 1.75 m/s, up to 8 floors (non-standard floors also supported)
- Integrated solution, with compact system, simple wiring, high reliability, easy operation, and lower labor costs
- Built-in braking units for the whole series
- Compatible with various encoders (open-collector, push-pull, UVW, Sin/Cos)
- Ultra-slim design, suitable for MRL installation (including villa elevators)
- Allows you to set parameters in group

Robust Safety Functions

- 3-channel high-voltage door lock detection on the main board
- UCMP function/Auto-detection of braking force
- Auto-detection of wire rope slippage
- Special brake power board with high reliability
- Smart diagnosis and classified management of elevator faults

Control System



Technical Specifications

Input/Output	
Rated input voltage	Three-phase AC 380 V / Single-phase 220 V; continuous fluctuation of voltage ±10%, transient fluctuation -15% to 10%; voltage unbalance rate: <3%, distortion rate compliant with IEC 61800-2
Rated input frequency	50/60 Hz, fluctuation range: ±5%
Output voltage	Three-phase output under rated input, 0 to rated input voltage, deviation less than ±3%
Output frequency	0.00 to 200.00 Hz (unit: 0.01 Hz)
Peripheral Interfaces	
LV digital input	50 low voltage digital inputs, DC 24 V / 10 mA
HV detection input	3 high voltage detection inputs, AC/DC 110 V
Relay output	23 relay outputs
Keypad	Keypad with 3-digit LED display, 4 buttons, all parameters modifiable
Communication	1 standard RS485, 1 CAN
Encoder interface	Built-in sin/cos, open-collector output, push-pull output or UVW encoder interfaces
Elevator Control	
Applicable elevators	Passenger, sightseeing, hospital, freight, fire and villa elevators
Highest floor	8 floors as standard configuration
Group control	Built-in parallel control; one group control board for 4 elevators, and two boards for 8 elevators
Maximum speed	1.75 m/s as standard configuration
Distance control	Direct to floor, auto generation of N numbers of curves
Drive Control	
Control mode	Flux vector control with PG, flux vector control without PG
Overload capacity	150% rated current for 60 s, 180% rated current for 10 s
Startup torque	0 Hz 200% (flux vector control with PG), 0 Hz 150% (flux vector control without PG)
Speed control precision	±0.02% (flux vector control with PG); ±0.2% (flux vector control without PG)
Carrier frequency	0.7 to 16.0 kHz, adjusted according to load and speed
Dynamic braking	Built-in braking unit as standard

Elevator Functions

1	Synchronous motor auto-tuning	47	Arrival gong disabled at specified time
2	Inspection running	48	Multiple ways for alarm
3	Auto slow leveling	49	Limit on door open times of hall call
4	Shaft auto-tuning	50	Hall call disabled upon commissioning
5	Elevator lock	51	Forced door close
6	Auto returning to main floor at fire emergency	52	Anti-nuisance
7	Firefighter running	53	Security floor control
8	Reserved running	54	Hall button stuck check
9	Test running	55	Independent control of front and rear doors
10	Full collective selective, up and down selective	56	Repeat door close
11	Direct travel ride with full load	57	Door pre-close by the door close button
12	Direct travel ride	58	Door open time auto setting
13	N curves	59	On-off control of door open/close limit
14	Leveling adjustment	60	Continuous door open/close output selection
15	Parallel running	61	Overload protection
16	Real-time clock management	62	Running timeout protection
17	Auto parking	63	Speed deviation protection
18	Cut off lighting and fan power supplies	64	Contactor abnormal act protection
19	Cancellation of wrong calls	65	Encoder fault protection
20	Reverse floor number clear	66	Motor overheat protection
21	A variety of statistics and counting methods	67	Earthquake function
22	Door open function selection of light curtain	68	Leveling switch fault protection
23	Floor position correction by the terminal floor	69	Door lock stuck protection
24	Parameter copy	70	Brake switch detection
25	Locking the operating panel	71	Slow-down switch detection
26	Redefine the command buttons	72	Static door lock shorting auto detection
27	Fault records	73	Direction and floor display upon barring
28	Floor number display setting	74	UCMP
29	Real-time monitoring of CAN status	75	Slip amount test
30	Car arrival gong	76	Balance coefficient test
31	Even-odd running	77	Braking force test
32	Quick commissioning of parameters	78	Micro-leveling
33	Firefighting floor setting	79	VIP floor service
34	Runaway prevention	80	Load compensation
35	Automatic identification of power failure	81	Group running
36	Current cancellation in ramp mode	82	Peak service
37	Independent working power supply	83	Dispensed waiting
38	Dual-speed for inspection	84	Community monitoring
39	Encoder disconnection runaway prevention	85	Hall arrival forecast indicator
40	Idle elevator returning to main floor	86	Hall arrival gong
41	Arc hazards prevention	87	Abnormal door open protection
42	Attendant running	88	IC card
43	Independent running	89	IoT remote alarm
44	Door close limit fault protection	90	Door pre-open
45	Smart IoT	91	Emergency running at power-off
46	Self-rescue for rollback using UPS		

Naming Rule

Smile1000 - 4 T 1.1

1 — 2 3 4

1 Product series
Smile1000 series

2 Voltage class
2: 220 V
4: 380 V

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

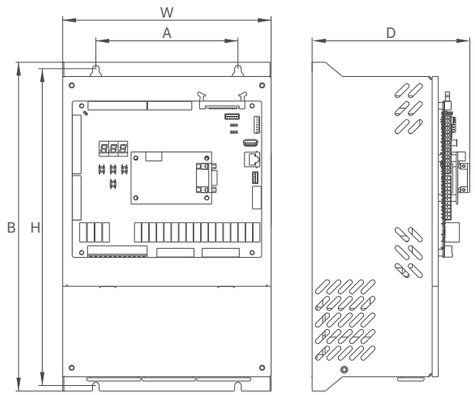
4 Rated output power
1.1: 1.1 kW
(1.1 to 75 kW)

Basic Parameters

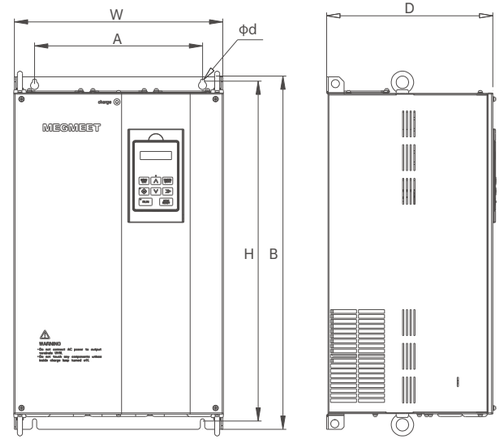
Model	Power capacity (kVA)	Input current (A)	Output current (A)	Applicable power (kW)
Smile1000-2S1.1	1.8	8.8	5.5	1.1
Smile1000-2S1.5	2.7	12.5	7.7	1.5
Smile1000-2S2.2	4.0	17.9	12.0	2.2
Smile1000-2S3.7	6.0	25.3	18.0	3.7
Smile1000-2S5.5	8.6	34.6	23.0	5.5
Smile1000-2T2.2	4.0	11.0	10.0	2.2
Smile1000-2T3.7	6.0	17.0	15.0	3.7
Smile1000-2T5.5	9.0	29.0	27.0	5.5
Smile1000-2T7.5	12.6	36.0	33.0	7.5
Smile1000-2T11	15.0	41.0	47.0	11.0
Smile1000-4T5.5	8.5	15.0	13.0	5.5
Smile1000-4T7.5	11.0	21.0	18.0	7.5
Smile1000-4T11	18.0	28.0	27.0	11.0
Smile1000-4T15	22.0	33.0	33.0	15.0
Smile1000-4T18.5	24.0	40.0	39.0	18.5
Smile1000-4T22	30.0	50.0	48.0	22.0
Smile1000-4T30	42.0	62.0	60.0	30.0
Smile1000-4T37	50.0	75.0	75.0	37.0
Smile1000-4T45	60.0	90.0	90.0	45.0
Smile1000-4T55	72.0	112.0	110.0	55.0
Smile1000-4T75	100.0	157.0	152.0	75.0

Note: 220 V requires non-standard customization.

Installation Dimensions



Enclosure A/B/C/D/E/F



Enclosure G/H

Enclosure	Model	W (mm)	A (mm)	B (mm)	H (mm)	D (mm)	Hole diameter (mm)
A	Smile1000-2S2.2 Smile1000-2S3.7 Smile1000-2S4.0 Smile1000-2S5.5	223	150	347	334.5	143	6.5
B	Smile1000-2T2.2 Smile1000-2T3.7 Smile1000-2T4.0 Smile1000-2T5.5	220	150	347	334.5	176.3	6.5
C	Smile1000-2T7.5 Smile1000-2T11	337.5	292.5	347	520.5	279.5	7.0
D	Smile1000-4T5.5 Smile1000-4T7.5	220	150	307	294	160.1	7.0
E	Smile1000-4T11 Smile1000-4T15	220	150	347	335	167	7.0
F	Smile1000-4T18.5 Smile1000-4T22 Smile1000-4T30	225	195	347	335	186.3	6.5
G	Smile1000-4T37 Smile1000-4T45	335	270	570	549	267	7.0
H	Smile1000-4T55 Smile1000-4T75	335	270	600	579	292	7.0

Terminal Wiring Description

Main Circuit Terminals

Mark	Name	Description
R, S, T	Three-phase power supply input terminals	Three-phase AC power supply input
+, -	DC bus positive and negative terminals	Connected to the external braking unit and energy feedback unit for 37 kW and above
+, PB(P)	Braking resistor terminals	① + and PB are connected to the braking resistor for controllers below 37 kW. ② + and P are connected to the DC reactor for controllers of 37 kW and above. (The controller comes with a factory-installed jumper between + and P terminals. Do not remove this jumper if no external DC reactor is connected.)
U, V, W	Controller output drive terminals	Connected to a three-phase motor
⏚	Grounding terminal	Grounding terminal

Control Circuit Terminals

Mark	Type	Name	Description
CN2/CN4	24V/COM	External 24 VDC input	Provides 24 V power supply for the whole board
	L1 to L26	Button function selection	Button input signal activation and button indicator output, with 24V output for button lighting
CN1/CN6	X1 to X24	Digital signal input	Input voltage: 10 VDC to 30 VDC Input impedance: 4.7 kΩ optocoupler isolation Input current limit: 5 mA DI terminals, with functions configured via F5-01 to F5-24
	AI-M/AI	Analog differential input	Used for an analog load cell device
CN7	X25 to X27/XCM	HV detection terminals	Input voltage: 110 VAC ±15%, 110 VDC ±20% for the safety circuit and door lock feedback circuit, configured via F5-25 to F5-27
	Y0/M0 to Y3/M3	Relay output	Relay normally-open (NO) output, 5 A / 250 VAC, configured via F7-00 to F7-03
CN8/CN9	Y6 to Y22	Relay output	Relay normally-open (NO) output, 5 A / 250 VAC or 5 A / 30 VDC, configured via F7-06 to F7-22
	YM1 to YM3	Relay output common points	YM1 is the common point of Y6 to Y9, YM2 is the common point of Y10 to Y16, and YM3 is common point of Y17 to Y22.
CN3	MOD+/-	Reserved	Reserved
	CAN+/-	CAN bus differential signal	CAN interface for parallel communication
	GND	Grounding	Grounding
CN15	USB	Communication interface	For mobile phone commissioning via an external bluetooth module For mainboard program burning For residential monitoring
CN14	RJ45	Keypad interface	Connected to the keypad
CN12	PG card interface		
J1/J2	For manufacturer use only. Do not short arbitrarily, otherwise normal operations may be affected.		

ARD1000 Series

Item	Description
Mounting dimensions	450 mm * 432 mm
Outline dimensions	500 mm * 530 mm * 162 mm
Input terminals (high voltage)	L1, L2, L3, N, PE
Output terminals (high voltage)	R, S, T (R, T for output)
Input terminals (signal)	24V, X1, X2, X3
Output terminals (signal)	24V, Y1/M1, Y2/M2, Y3/M3
Function	Three-phase five-wire system, three-phase 380 V input and single-phase 380 V output (optional battery capacities)

ARD2000 Series

Item	Description
Mounting dimensions	515 mm * 515 mm
Outline dimensions	550 mm * 686.5 mm * 174.7 mm
Input terminals (high voltage)	L1, L2, L3, PE
Output terminals (high voltage)	R, S, T (R, T for output)
Input terminals (signal)	X1, X2, X3, X4
Output terminals (signal)	24V, Y1/M1, Y2/M2, Y3/M3, Y4/M4
Function	Three-phase four-wire system, three-phase 380 V input, single-phase 380 V output, and reserved CAN communication (optional battery capacities)

Robust Reliability

Strict Product Test

- Development test: R&D equipment worth 100 million yuan
- Environment test: advanced test equipment covering thermal shock, lightning and surge, ESD, EMI, salt mist, vibration, leak current and component life
- International standards: compliant with CCC/CE/UL/CSA/TUV and others

Lightning laboratory

Superior Quality Control

- System certification: certified by ISO9001 and ISO14001
- Supplier management: strict rules on supplier admittance and warehouse-in inspection, and strategic partnership with world-famous suppliers for direct and quick delivery
- Automated production: over 30 automated production lines, realizing independent production from SMT, DIP, assembly to the finished product test

Adaptation to Power Mains

- Well adapted to voltage fluctuation: 380 VAC (-15% to +20%)
- Phase-phase, phase-ground short-circuit protection and shoot-through protection for the whole series
- Built-in braking units for the whole series, with short-circuit protection
- 460 to 750 VDC power supported for the whole series, with a snubber circuit

EMC laboratory

- Optional DC reactors, reducing harmonics and improving the power factor
- Built-in lightning overcurrent protection apparatus for the whole series
- Redundant design for critical components of the main circuit, prolonging the component life and lowering the fault rate

Adaptation to Environment

- Independent airduct design for the whole series, separating the electronic system from the heat dissipation system
- Protective coating on electronics, dustproof, dampproof and moldproof
- "Buckle-type" industrial connectors with shock resistance

Environmental laboratory