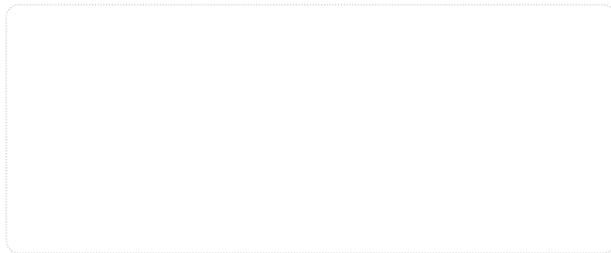


INVT Elevator Products Catalog

Your trusted industry automation solution provider



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Industrial Automation: ■ Frequency AC Drive ■ Servo & Motion Control ■ Motor & Electric Spindle ■ PLC
■ HMI ■ Intelligent Elevator Control System ■ Traction Drive
Electric Power: ■ SVG ■ Solar Pump Controller ■ UPS ■ Online Energy Management System

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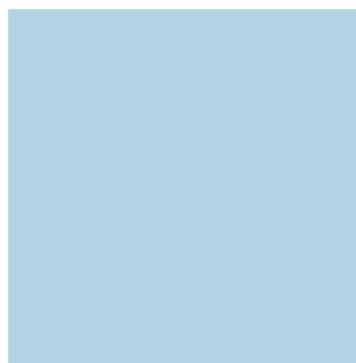
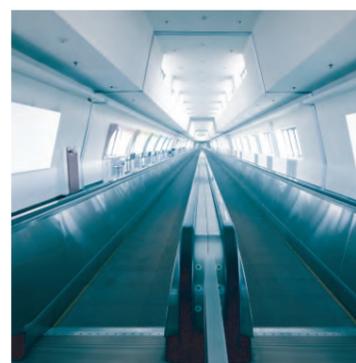
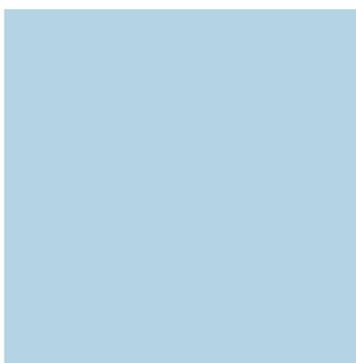
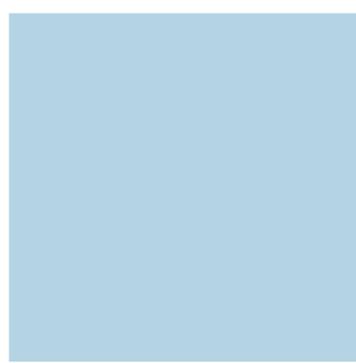




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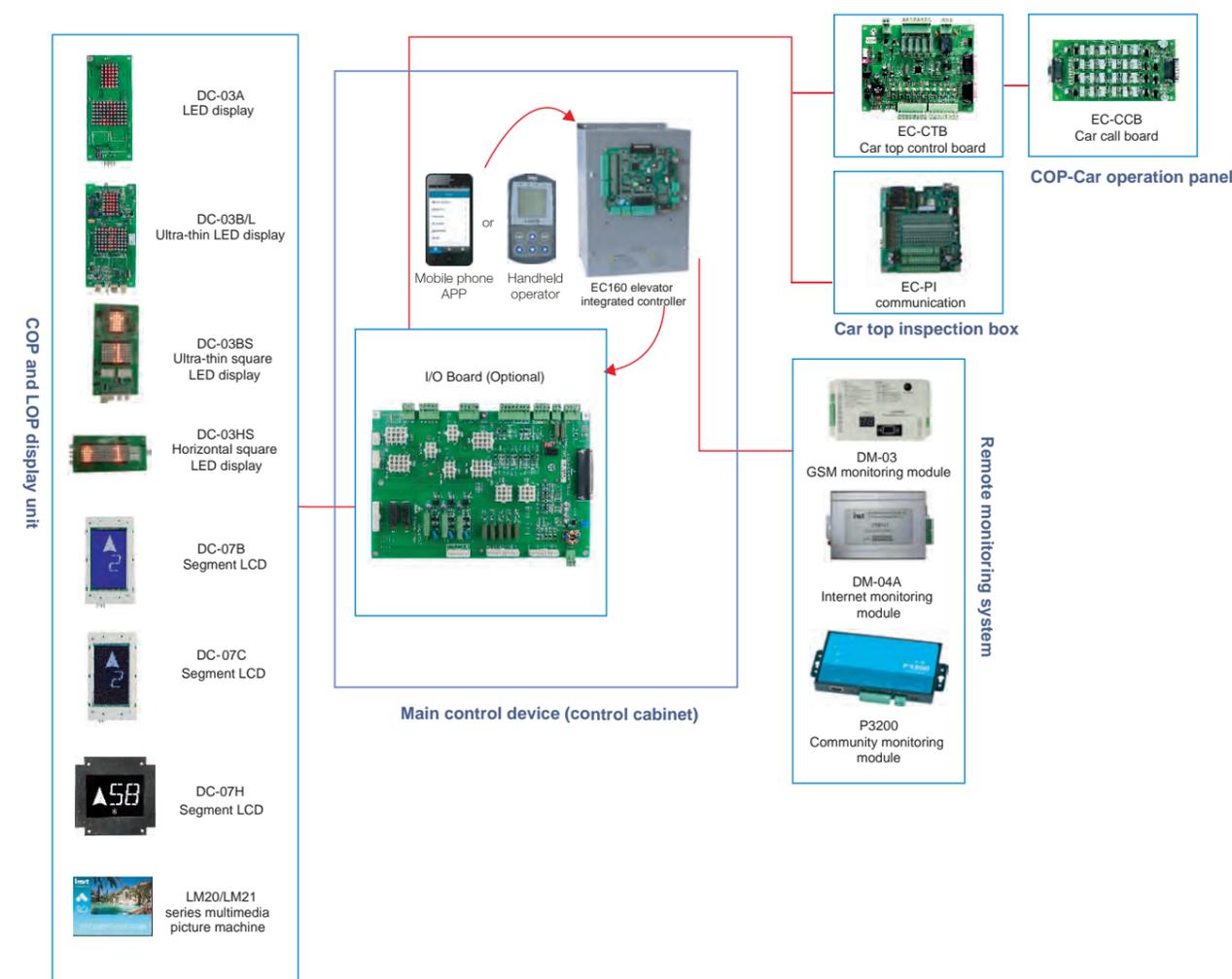
Elevator Control Solution

Solution Features

- EN81 Elevator Standard
- Integration of intelligent drive and elevator controller
- Multiple choices such as multi-media, LCD, segment and dot-matrix LED for the COP and HOP display
- Real-time remote monitoring system, effective elevator pre-alarm and alarm solutions
- Controllable maintenance supervision



EC160 Series Configuration



Hand terminal (optional):

EC100-PAD elevator debugging tool, LCD display, available in Chinese, English and Turkish. Yitiao APP on phone, integrates all and more functions of EC100-PAD, support remote assistance online, convenient to use and carry.

Multi-type display board:

multi-media, LCD, LED (horizontal/vertical display)

Elevator IoT Solution:

DM-03, elevator fault alarm GSM module
DM04A, elevator internet monitoring module
P3200, elevator community monitoring module

Technical Advantages

- PLC programmable technology
- Direct stop technology in the principle of distance control, automatically generate N curves
- Advanced vector control technology
- LCD operation keypad, mobile phone commissioning APP with bluetooth module
- Redundancy design, safety protection function for the drive control, improving elevator safety factor greatly
- Automatic car position correction, monitoring function for the forced deceleration switch, protection function against top-hitting and bottom-clashing

EC160 Series Elevator Integrated Controller

About the Product

EC160 series elevator integrated controller is a new elevator intelligent control system developed under the design concept that integrates drive, control and network communication together. It adopts advanced closed loop vector control technology, elevator intelligent control technology and network communication technology, integrating elevator drive, control and management together.



Main Features

- Resources reducing in elevator installation, debugging, operation and management
- Max. speed: 6m/s, Max floor: 64
- Intelligent network group control can control 8 elevators at the same time
- Embedded high-performance starting compensation technology of non-weighing sensor
- CANBUS for communication in the car, MODBUS or CANBUS for external communication
- Low voltage emergency rescue mode of AC220V single-phase UPS, light load direction search
- Safety enabling hardware input conform to EN81 standards



Special Functions

- Integrated with control and I/O interface, the compact structure saves installation space for control cabinet
- The integration of encoder interfaces of synchronous and asynchronous motors satisfies stock generalization
- Hand terminal: independent HMI, online Chinese-English help system, functions of debugging permission management, debugging trace management, parameters uploading/downloading and computer data copying
- Add TCP/IP internet module for remote debugging or control
- Support TCP/IP protocol remote monitor
- Support both serial and parallel communication
- Built-in PG card, support both SIN/COS and incremental encoder

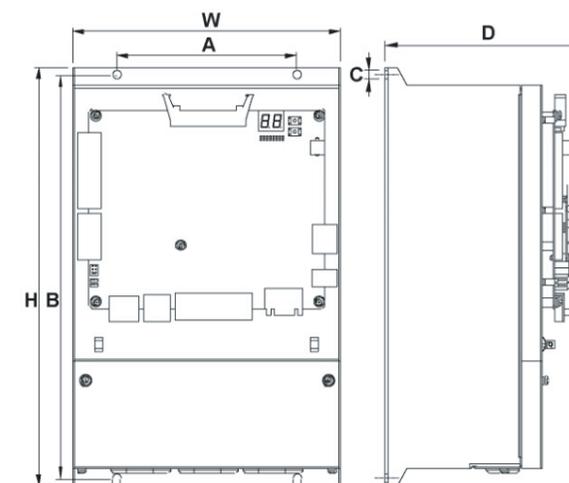
Comprehensive Technical Parameters

Item	Name	Description
I/O characteristics	Input voltage range	3PH AC380V±15% 3PH AC220V±15%
	Input frequency range	47~63Hz
	Output voltage range	0~rated input voltage
	Output frequency range	0~400Hz
Peripheral interface characteristics	Digital low voltage input	24 digital inputs, 9~30V
	High voltage detection input	3 high voltage detection inputs, 110V/220V
	Switch output	Standard: 6 relay NO outputs, 5A/250 VAC
	Communication interface	2 groups of CANbus, 2 groups of Modbus
Technical control characteristics	Encoder interface	Standard: SIN/COS, UVW, incremental encoder interface Optional: Endat 2.1, rotary PG card
	Control mode	V/F, open loop vector, close loop vector
	Speed control accuracy	Sensorless vector control: ±0.5% of the Max. speed; PG vector control: ±0.1% of the Max. speed
	Starting torque	Sensorless vector control: 0.5Hz/150% (SVC); PG vector control: 0Hz/180% (VC)
	Overload capacity	150% of the rated current: 60s, 180% of the rated current: 10s, 200% of the rated current: 1s
Carrier frequency	1.0~16kHz, adjust carrier frequency automatically according to load characteristics, default value: 6kHz	

Configuration

Model	Input Voltage	Output power (kW)	Output current (A)	Braking unit	Min.Braking Resistor
EC160-2R2-S2	Single-phase 220V±15%	2.2	11.0	Built-in	100Ω/1000W
EC160-004-2	3PH AC220V±15%	4.0	18.5	Built-in	35Ω/1200W
EC160-5R5-2		5.5	27.0	Built-in	25Ω/1500W
EC160-7R5-2		7.5	34.0	Built-in	20Ω/2000W
EC160-011-2		11.0	46.0	Built-in	15Ω/4000W
EC160-015-2		15.0	62.0	Built-in	10Ω/4500W
EC160-018-2		18.5	75.0	DBU-055-2	8Ω/5000W
EC160-004-4	3PH AC380V±15%	4.0	11.0	Built-in	75Ω/1200W
EC160-5R5-4		5.5	13.0	Built-in	55Ω/1500W
EC160-7R5-4		7.5	18.5	Built-in	50Ω/2000W
EC160-011-4		11.0	27.0	Built-in	40Ω/4000W
EC160-015-4		15.0	34.0	Built-in	32Ω/4500W
EC160-018-4		18.5	38.0	Built-in	28Ω/5000W
EC160-022-4		22.0	46.0	Built-in	22Ω/7000W
EC160-030-4		30.0	62.0	Built-in	20Ω/10000W

Appearance and Installation Dimensions



Installation Dimensions

Input voltage	Power(kW)	W(mm)	H(mm)	D(mm)	A(mm)	B(mm)	C(mm)	Installation STUD
3PH AC220V	4~7.5	223	347	169	150	334.5	Φ7	M6
	11~15	290	426	233	235	410	Φ7	M6
3PH AC380V	4~5.5	223	347	168	150	334.5	Φ7	M6
	7.5~15	223	347	169	150	334.5	Φ7	M6
	18.5~30	290	426	233	235	410	Φ7	M6

EC300 Series Elevator Integrated Controller

About the Product

EC300 intelligent integrated machine all in one designed for drive, control, energy feedback and network communication is a new generation of 4-quadrant intelligent elevator control systems. By the combination of 4-quadrant drive, control and management and the applications on potential loading occasions for elevators, it improves all around in the aspects of energy efficiency, safety and reliability, easy operation and economic practicality.



Main Features

- Resources reducing in elevator installation, debugging, operation and management
- Max. speed: 6m/s, Max floor: 64
- Intelligent network group control can control 8 elevators at the same time
- Embedded high-performance starting compensation technology of non-weighing sensor
- CANBUS for communication in the car, MODBUS or CANBUS for external communication
- Low voltage emergency rescue mode of AC220V single-phase UPS, light load direction search
- Safety enabling hardware input conform to EN81 standards

Special Functions

- Adopts four quadrant frequency control technology to convert the redundant mechanical energy(potential energy and kinetic energy) of the elevator in operation into electricity back to the grid, replace the traditional way of braking resistor energy consumption, energy feedback efficiency up to 80% above, feedback current harmonic < 5%, and total energy-saving up to 30%, in line with the requirement to the power grid harmonic in IEC61000-3-2, makes it easier to get the A grade of elevator energy consumption indicators authentication.
- DSP adopts TI dual-core control chip from the United States, with high communication rate, fast curve tracking response, high control accuracy and strong anti-interference ability
- Built-in data black box function: it can monitor and record the status of elevator operation in real time. When the elevator has instantaneous fault, the control chip can automatically judge the type of fault and record it all in memory

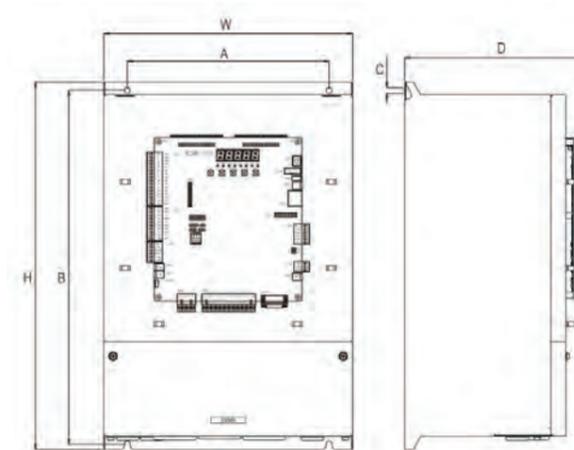
Comprehensive Technical Parameters

Item	Name	Description
I/O characteristics	Input voltage range	3PH 380V(-15%)~440V(+10%)
	Input frequency range	47~63Hz
	Output voltage range	0~rated input voltage
	Output frequency range	0~400Hz
Peripheral interface characteristics	Digital low voltage input	24 digital inputs, 9~30V
	High voltage detection input	3 high voltage detection inputs, 110V/220V
	Switch output	Standard: 6 relay NO outputs, 5A/250 VAC
	Communication interface	2 groups of CANbus,2 groups of Modbus,Ethernet
Technical control characteristics	Encoder interface	Standard: SIN/COS, UVW, incremental encoder interface Optional: Endat 2.1, rotary PG card
	Control mode	V/F, open loop vector, close loop vector
	Speed control accuracy	Sensorless vector control: ±0.5% of the Max. speed; PG vector control: ±0.1% of the Max. speed
	Starting torque	Sensorless vector control: 0.5Hz/150% (SVC); PG vector control: 0Hz/180% (VC)
	Overload capacity	150% of the rated current: 60s, 180% of the rated current: 10s, 200% of the rated current: 1s
	Carrier frequency	1.0~16kHz, adjust carrier frequency automatically according to load characteristics, default value: 6kHz

Configuration

Model	Input Voltage	Output Power (kW)	Input Current (A)	Output Current (A)	Carrier Frequency (kHz)	Input Reactor Model
EC300-7R5-4	3PH AC380V±15%	7.5	25	18.5	1 ~ 15 (6)	ERL20A10504
EC300-011-4		11	32	27	1 ~ 15 (6)	ERL20A10504
EC300-015-4		15	40	34	1 ~ 15 (6)	ERL35A06004
EC300-018-4		18.5	47	37	1 ~ 15 (6)	ERL45A04704
EC300-022-4		22	56	46	1 ~ 15 (6)	ERL45A04704
EC300-030-4		30	70	62	1 ~ 15 (6)	ERL60A03504

Appearance and Installation Dimensions



Installation Dimensions

Input voltage	Power(kW)	W(mm)	H(mm)	D(mm)	A(mm)	B(mm)	C Hole Diameter (mm)	Installation STUD
3 PH AC380V	7.5-15	223	347	181	150	334.5	Φ7	M6
	18.5-30	290	426	225	235	410	Φ7	M6

EC100 Series Elevator Integrated Controller

About the Product

EC100 series elevator integrated controller is an intelligent network product for control and drive through applying advanced variable-frequency vector control, intelligent elevator control and network communication. We devote to provide high-tech, high-quality, energy-saving and safe control drive devices to global market.



Main Features

- Resources reducing in the elevator installation, debugging, operation and management
- Max speed: 6m/s Max floor:64
- Intelligent network group control can control 8 elevators at the same time
- Embedded high-performance no-load starting compensation technology
- Advanced vector calculation and be compatible to the encoder interface of AM/SM motor
- High-performance current vector control, 180% torque output at zero speed
- Low voltage emergency-rescue mode of AC220V single phase UPS, search the direction in light load
- EN81-20 certificate

Special Functions

- The initiate open PLC programming controller: provide the shifting/changing function for some input/output terminals and further development platform for the user
- Hand terminal: stand-alone human-machine interface, on-line Chinese/English help system; functions of debugging management, debugging trace management, parameters uploading/downloading, computer data copying
- The hand terminal can be connected to the CAN interface in the car for convenient parameters setting
- Add TCP/IP internet module for remote debugging and control
- Support remote control of TCP/IP protocol

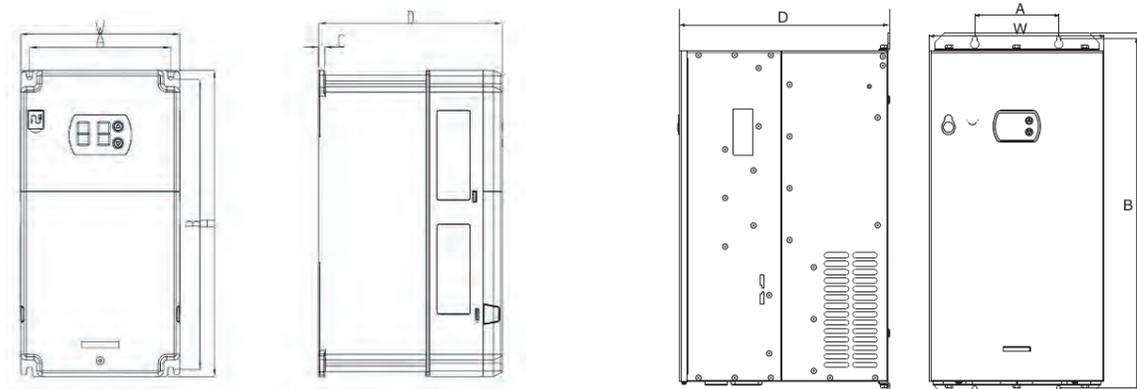
Comprehensive Technical Parameters

Item	Name	Description
Input/output characteristics	Input voltage range	3PH AC380V±15% 3PH AC220V±15%
	Input frequency range	47~63Hz
	Output voltage range	0~Rated input voltage
	Output frequency range	0~400Hz
Peripheral interface features	Digital low voltage input	29 channels, DC24V/4.5~8mA
	High-voltage detector input	3 channels, AC/DC 110V
	Digital output	12 channels
	CAN communication interface	3 channels
Technical control characteristics	Encoder port	Incremental encoder interface, SIN/COS, UVW
	Control mode	PG vector control
	Overload capacity	150% of the rated current:60s; 180% of the rated current:10s
	Starting torque	PG vector control: 0Hz/ 180%
	Speed control accuracy	PG vector control: ±0.1% of the Max. speed
	Carrier frequency	1.0kHz~16.0kHz

Configuration

Model	Input Voltage	Output Power(kW)	Output Current(A)	Braking Unit	Min.Braking Resistor
EC100-1R5-S2	Single-phase	1.5	5.5	Built-in	120Ω/400W
EC100-2R2-S2	220V±15%	2.2	11	Built-in	100Ω/1000W
EC100-004-2	3PH AC220V±15%	4.0	18.5	Built-in	35Ω/1200W
EC100-5R5-2		5.5	27.0	Built-in	25Ω/1500W
EC100-7R5-2		7.5	34.0	Built-in	20Ω/2000W
EC100-011-2		11.0	46.0	Built-in	15Ω/4000W
EC100-015-2		15.0	62.0	Built-in	10Ω/4500W
EC100-018-2		18.5	75.0	DBU-055-2	8Ω/5000W
EC100-004-4	3PH AC380V±15%	4.0	11	Built-in	75Ω/1200W
EC100-5R5-4		5.5	13	Built-in	55Ω/1500W
EC100-7R5-4		7.5	18.5	Built-in	50Ω/2000W
EC100-011-4		11.0	27.0	Built-in	40Ω/4000W
EC100-015-4		15.0	34.0	Built-in	32Ω/4500W
EC100-018H-4		18.5	38.0	Built-in	28Ω/5000W
EC100-022-4		22.0	46.0	Built-in	22Ω/7000W
EC100-030-4		30.0	62.0	Built-in	20Ω/10000W
EC100-037-4		37.0	75.0	DBU-55-4	14Ω/11000W
EC100-045-4		45.0	92.0	DBU-55-4	11Ω/13500W
EC100-055-4	55.0	115.0	DBU-55-4	9Ω/16500W	

Appearance and Installation Dimensions



Dimension of 3PH AC220V 15kW and below
Dimension of 3PH AC380V 30kW and below

Dimension of 3PH AC220V 18.5kW
Dimension of 3PH AC380V 37~55kW

Installation Dimensions

Input voltage	Power(kW)	W(mm)	H(mm)	D(mm)	A(mm)	B(mm)	C(mm)	Hole Diameter (mm)	Installation STUD
Single-phase 220V	1.5~2.2	170	320	197	151	303	6.5	Φ6.5	M6
3PH AC220V	4~5.5	170	320	197	151	303	6.5	Φ6.5	M6
	7.5	230	330	197	210	311	6.5	Φ6.5	M6
	11~15	255	400	226	237	384	10	Φ6.5	M6
	18.5	270	555	325	130	540	2	Φ7	M6
3PH AC380V	4~11	170	320	197	151	303	6.5	Φ6.5	M6
	15~18.5	230	330	197	210	311	6.5	Φ6.5	M6
	22~30	255	400	226	237	384	10	Φ6.5	M6
	37~55	270	555	325	130	540	2	Φ7	M6

GD300L Series Elevator AC Drive

About the Product

GD300L series elevator AC drives are the new generation AC drives developed based on INVT the latest and most advanced Goodrive300 control platform. As using TI 28-series DSP and advanced vector control technology, Goodrive300L series elevator AC drive improved great achievements in security and reliability, control performance, and use functions.



Technical Features

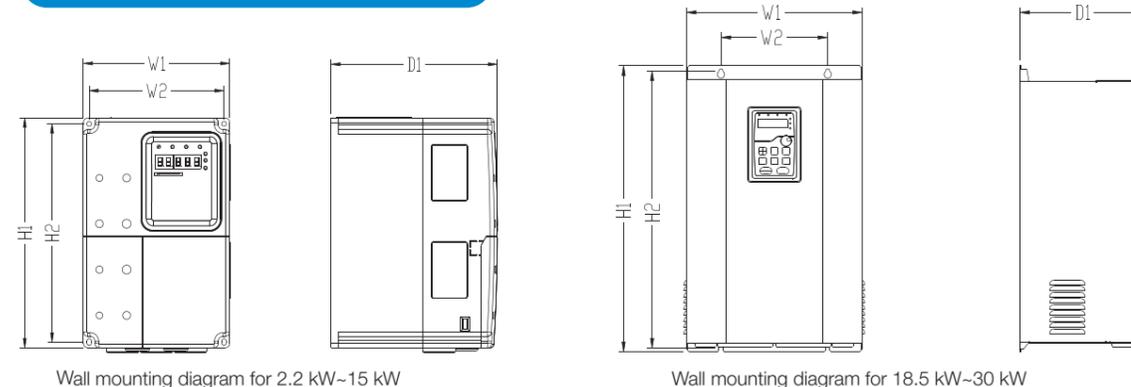
- STO function: Support optional built-in Safety Torque Off function, and conform to IEC 61508(SIL 3), EN/ISO 13849-1(PL e) and EN945-1(Category 3)
- Support forced deceleration function to prevent lift car from top-hitting and bottom-clashing during the upward or downward running.
- Emergency running with power supply AC220V or AC380V or battery(DC48V≤voltage≤96V) and light load direction search.
- Starting/stopping torque compensation with/without weight sensors prevent reverse slip at startup by parameter setting, ensuring stable lift startup.
- Support open/closed loop vector control
- Support jerkless ARD

Selection Guideline

Model	Rated output power (kW)	Rated input current (A)	Rated output current (A)	DC reactor	Braking unit	Recommended Braking Resistor
GD300L-2R2G-S2	2.2	23	10	Optional (external)	Standard (embedded)	100Ω/1000W
GD300L-004G-4	4	13.5	9.5			75Ω/1200W
GD300L-5R5G-4	5.5	19.5	14			55Ω/1500W
GD300L-7R5G-4	7.5	25	18.5			50Ω/2000W
GD300L-011G-4	11	32	25			40Ω/4000W
GD300L-015G-4	15	40	32	Standard (embedded)	Optional (external)	32Ω/4500W
GD300L-018G-4	18.5	47	38			28Ω/5000W
GD300L-022G-4	22	56	45			22Ω/7000W
GD300L-030G-4	30	70	60			20Ω/10000W

Note: If you require other models, please contact INVT

Appearance and Installation Dimensions



Wall mounting diagram for 2.2 kW~15 kW

Wall mounting diagram for 18.5 kW~30 kW

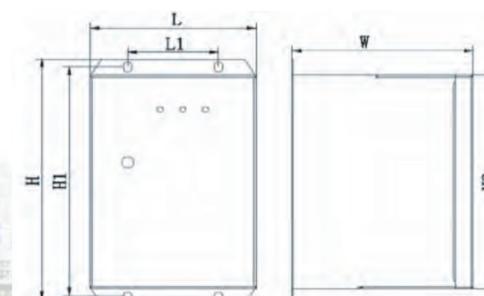
Model	W1 (mm)	W2 (mm)	H1 (mm)	H2 (mm)	D1 (mm)	Installation hole (d:mm)
2.2kW~5.5kW	160	147.5	250	237.5	175	5
7.5kW~15kW	220	206	320	305.5	180	6
18.5kW~30kW	290	176	470	455.5	220	6.5

Expansion Card

Name of card	Function instruction
 Asynchronous PG card	Compatible with push-pull signal, open collector signal and the differential signal; Frequency division range: 1~256, the division factor can freely choose by DIP switch
 SIN/COS Synchronous PG card	SIN/COS synchronous PG card support SIN/COS synchronous encoder(main type is Haidenhain ERN1387 or which is compatible with it)
 Absolute PG card	Absolute PG card support absolute rotary encoder. Endat 2.1/2.2 interface. The division factor is 1. Max. input frequency is 50KHz. (Main type is Haidenhain ECN1313)
 GD300L-I/O extension card	Offers 3 digital inputs, 1 relay output, 1 high-speed output, 1 opencollector output and 1 RS485 port for Modbus RTU.
 STO card	STO redundant input terminals,externally connecting to NC contactor.Input H1 and H2 can used as S5 and S6 (expansion for digital input) if STO disabled.

Dynamic Braking Unit

Model	Application range	L (mm)	L1 (mm)	W(mm)	H(mm)	H1(mm)	H2(mm)
DBU-055-4	18.5-55kW	110	60	120	180	171	160



EC10 Series Integrated Door Controller

About the Product

EC10 Series Integrated Door Controller using closed loop servo control technology, integrate car top control panel and door control as an elevator door system drive controller. It is customized for EC100 / EC160 series elevator integrated controller, which make the debugging and maintain easily.



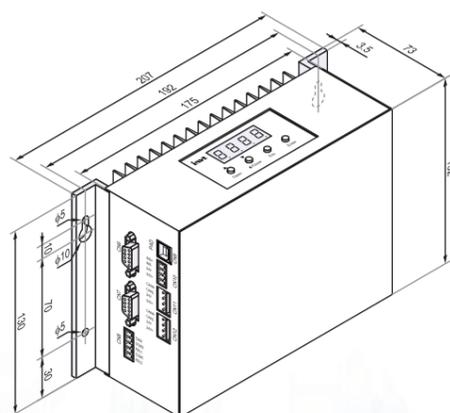
Technical Features

- Use closed loop servo control technology, due to high velocity response ability
- Integrated car top control board, reducing the wiring, simple and convenient debugging
- Precise of torque control, having door open/ close torque protect function
- Intelligent door width self learning, is easy to use
- Advanced limit function ensure the door machine is running smoothly and accurate
- Friendly parameter setting interface, convenient modify parameter
- Various communication interfaces: Support CAN, MODBUS, RS232

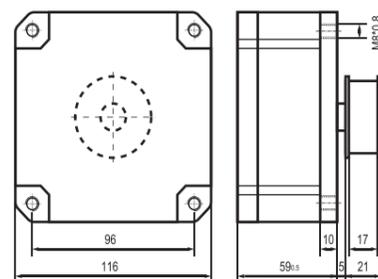
Specification

Item	Model	Rated Power(W)	Brake(A)	Contactor(A)	Main wiring(mm2)
DoorController	EC10-0R2G-S2	200	10	10	2.5
PM Motor	DL120-S16	50	-	-	-

Dimension



EC10 Integrated Door Controller



PM Motor

EC20 Series Elevator Door Controller

About the Product

EC20 Series Elevator Door Controller adopts international advanced vector control algorithm, can drive asynchronous motors, supports speed control mode, distance control mode 1 and 2, and it is widely used in automatic doors for elevators, shopping malls and supermarkets.



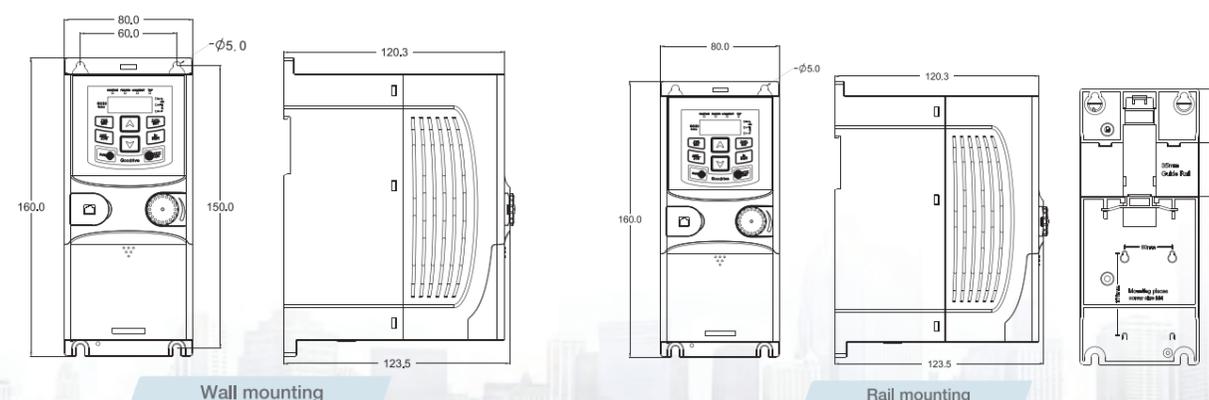
Technical Features

- **Excellent control performance**
Sensorless vector control and closed loop control for induction door motor
- **Various control modes**
Available speed control mode, distance control mode 1 and 2, improving application range
- **Mini structure design**
Smaller size, saving installation space
- **Various interfaces and strong functions**
Standard embedded CAN communication interface
- **Multiple mounting methods**
Compatible with wall mounting and rail mounting, easy to install
- **Easy to use and maintain**
The fan can be assembled and disassembled separately, easy to maintain

Specification

Model	Rated output power (W)	Rated input current (A)	Rated output current (A)	Gross weight (Kg)	Dimension (mm)
EC20-0R4G-S2	400	6.5	2.5	1.1	215*125*180
EC20-0R7G-S2	750	9.3	4.2	1.1	215*125*180

Dimension



Wall mounting

Rail mounting

EC30 Series Elevator Door Controller

About the Product

EC30 Series Elevator Door Controller is a driving system controlling permanent magnet synchronous motor and is specified for elevator door control, and it's able to achieve the best door opening and closing speed curve, efficient, reliable, easy to operate; the EC30 door controller is applicable to the door system whose net door opening width is (700~1500) mm.



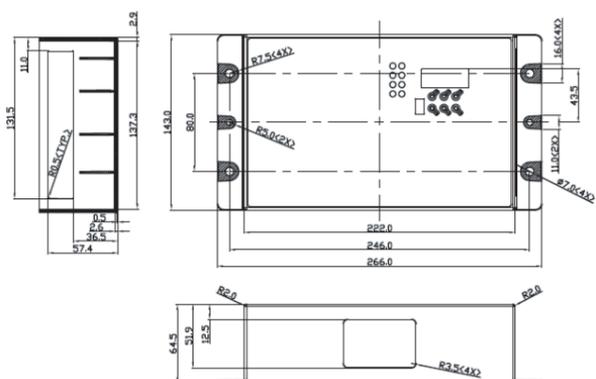
Technical Features

- Self-learning of door width
- Demonstration of automatic door opening and closing
- Failure alarm and self-protection function
- Support PM motor with absolute encoder

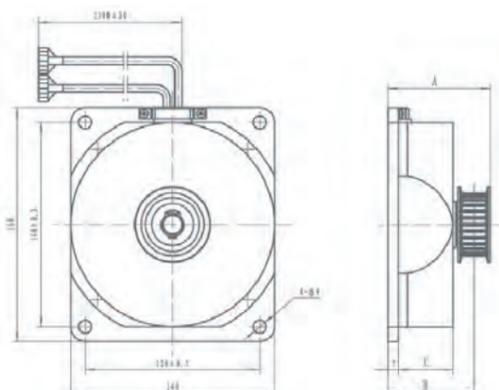
Specification

Input voltage	Rated frequency	Rated power	Output voltage	Output current
AC220V±15%	50/60Hz	400W	0~220V	2A

Dimension



EC30 Elevator Door Controller



PM motor

EC-CTB Car Top Control Board

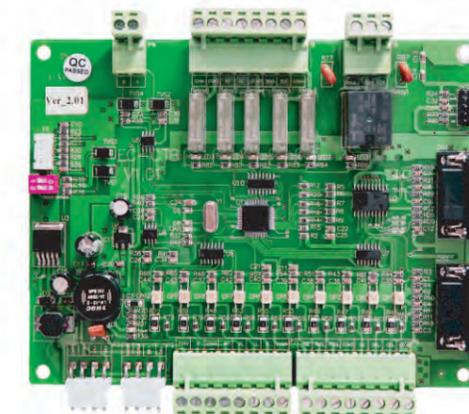
Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
162×125	152×115	Φ4

Product Features

- CANBUS communication
- RS485 communication available, provides a standard RS485 communication protocol to connect with third-party multimedia displays and voice announcer
- RS232 communication available
- Analog weighing input and switching value weighing modes available
- Up to 64 floors control
- Arrival bell output
- Illumination energy-saving control
- Double-door control

Installation Position

Car top inspection box or car operation panel



EC-CCB Car Operation Board

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
158*79	148*68	Φ4

Product Features

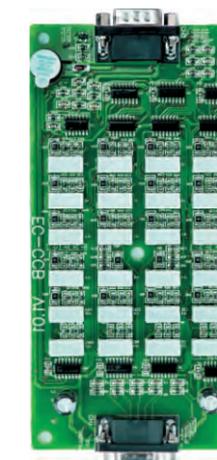
- One board every elevator at least, the first CCB supports 16 floors, one board every 20 floors when more than 16 floors
- Driver, independent, bypass or non-stop switch, driver communication, door-opening delay button input etc.

Application Range

Combined with EC-CTB car top control board

Installation Position

Car operation panel



EC-PI Communicaiton Board

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
130*120	123*113	Φ4

Product Features

- EC-PI is the serial-to-parallel IO board of EC series integrated controller
- One board supports maximum 8 floors under full collective mode, 16 floors under down collective mode, and supports casecade to extension
- Programmable input/output: 3 relays, 13 optocouplers, 35 low-voltage inputs
- CAN communication, flexible installation

Installation Position

Car top inspection box or control cabinet



LM11 Elevator Voice Station Reporting Device

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
156*105*41	145*70	Φ5.5

Product Features

- Announce the running direction when the elevator is about to run
- Announce the floor when the elevator is about to arrive at the stop
- Play the background music
- Comfort the passengers during fault or fire running
- When the elevator arrives at a floor, play the advertising music specified at the current floor after announcing the floor
- Support users to freely change all the music in LM11, including advertising music, background music and stop announcing music
- Use SD card to store MP3, easy to change

Installation Position

Car top or COP-Car operation panel



MC-GCL Elevator Group Controller

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
121.9*76.2	111.1*64	Φ4

Product Features

- GCL group control system support max 8 elevators
- GCL group control system operation mode: up passenger-flow rush hour, down passenger-flow rush hour, normal, idle
- Optimized dispatch, optimized running elevator
- Shortest and longest waiting time
- Calling control of long time waiting
- Passenger-flow rush hour service, self-running
- Energy-saving and group control fire fighting operation
- Group control spare power operation
- Decentralized processing control

Installation Position

Elevator control cabinet



BA Protocol Converter Board

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
90*60	64*52	Φ4

Product Features

- Used as a protocol converter, can provide RS485 and CAN protocol
- Baud rate is optional
- CANBUS protocol can provide monitoring signal: up/down, light curtain, OL, FL, fire protection, lock, fault etc
- RS485 protocol can provide monitoring signal: up/down, OL, FL, fire protection, lock, drive, by-pass, maintenance, fault etc
- RS485 bus monitoring signal: up/down, OL, FL, fire protection, lock, drive, by-pass, maintenance, fault etc

Application Range

Configured with other company's RS485 communication or CAN disclosed protocol communication product

Installation Position

COP-Car operation panel



EC-RDB Pre-open Door Board

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
98*84	90*76	Φ4

Product Features

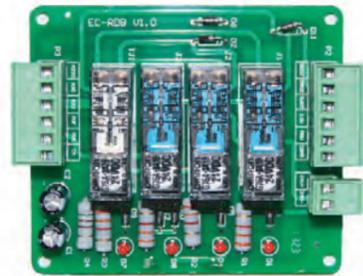
- Micro-leveling function: when the floor is high, passengers pass in and out can cause the car moving up and down for the rope stretching, which causes inaccurately leveling, so the system will leveling the car slowly with door open
- Pre-open function: to improve efficiency of the elevator, when the elevator is in the pre-installed zone, it will open the door automatically through the control of program (elevator is leveling, and not finishing the progress yet)

Application Range

When customer needs micro-leveling function, pre-open function

Installation Position

Control cabinet



EC-UCM UCMP Control Board

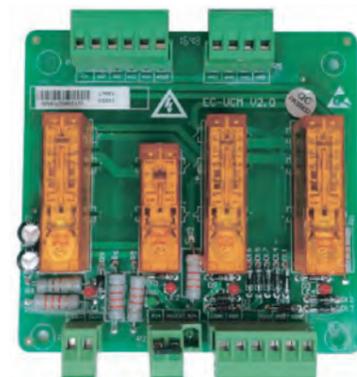
Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
113*108	97*92	Φ4

Product Features

- EC-UCM control board can detect whether the elevator moves unintentionally. If the elevator moves unintentionally, ec-ucm controller will output a safety signal to the actuator (elevator rope clamp, rail clamp and governor) to brake, providing an extra layer of protection for the elevator passenger
- Can effectively prevent contact adhesion, reduce error output and failure

Installation Position

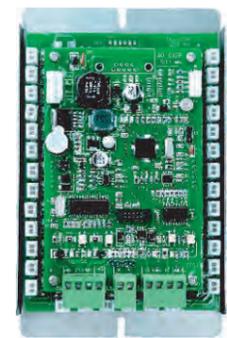
Control cabinet



BS10 Intelligent Management System for Elevator IC Card

Product Features

- Elevator special card can be used when get authorization of real estate management department
- Re-swipe card prevention
- Real-time record of card
- Automatic calling according to IC card information
- Remote control of elevator button
- Setting elevator special IC card permission to meet different demands
- Blacklist lock-out function to prevent illegal use when card is lost
- Multi-function card like smart card
- Card controller functions: swiping, lost, timed, timing, charging, visitor, driver, fire fighting, real-time card records, remote real-time card information, remote control of elevator etc.



Elevator Special IC Card Classification

Authorization card, common card, report the loss of card, timed card, timing card, expense deduction card, visitor card

System Configuration

- BS10-01 controller 1 piece every elevator
- BS10-02 antenna board 1 piece every elevator
- BS10-03 extension board 1 piece every 16 floors
- BS10-04 write card (optional)
- IC card read-write software (optional)

Installation Position

COP-Car operation panel

DC-03K Relay Expansion Board

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
53*50*11.4	43*40	Φ4

Product Features

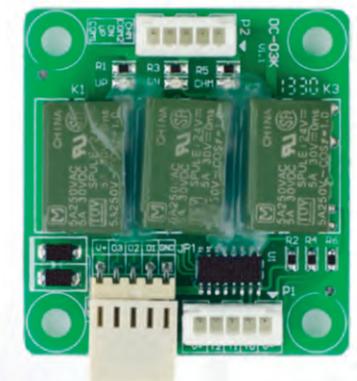
- Relay output
- Realize control of up/down lamp, arrival gong signal
- Output is : up/down indicator, arrival bell

Application Range

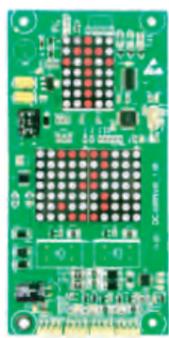
Combined with DC-03A , DC-03B, DC-03C, DC-3E

Installation Position

COP-Car operation panel, HOP-Hall operation panel



DC-03B/L Dot-matrix LED Display



Product Features

- 32-bit processor, red round dot-matrix LED, high brightness
- Refinement ultra-thin design 10mm, applied to wall-hooked landing operation panel
- Simple and reliable CANBUS serial communication
- All ASC characters can be displayed
- Calling, locking and fire protection function
- OL, FL, maintenance are optional
- Dot-matrix LED rolling display

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
144*70*12	134*56	Φ4

DC-03BS Dot-matrix LED Display



Product Features

- 32-bit processor, red square dot-matrix LED
- Refinement ultra-thin design 10mm, applied to wall-hooked landing operation panel
- Simple and reliable CANBUS serial communication
- All ASC characters can be displayed
- Calling, locking and fire protection function
- OL, FL, maintenance are optional
- Dot-matrix LED rolling display

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
144*70*12	134*56	Φ4

DC-03S/D Dot-matrix LED Display



Product Features

- Red round dot-matrix LED
- CANBUS communication
- Can display all characters of ASC
- Function for hall call, parking, fire, overload, maintenance
- Optional for up/down arriving lantern

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
100*70*7.9	86*56	Φ4

DC-03S Dot-matrix LED Display



Product Features

- Red round dot-matrix LED
- CANBUS communication
- Can display all characters of ASC
- Function for hall call, parking, fire
- Support output for arrival lantern

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
85*50*14.1	72.4*42	Φ4

DC-03I Dot-matrix LED Display



Product Features

- White round dot-matrix LED, high brightness
- CANBUS communication
- Ultra-thin design
- Function for hall call, parking, fire, overload, maintenance

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
144*70*12.5	134*56	Φ4

DC-03E Segment LED Display

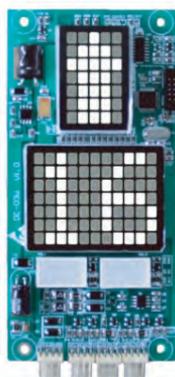


Product Features

- DC 24V power supply, 32-bit processor
- CANBUS communication, 1-digit LED display, applicable to the hall of home elevators or external call in group control
- Display the information of floor, inspection and full load
- Input ports of calling and locking
- Output port of 4-digit parallel display, Max. address: 15
- Output of arrival lamp or gong is optional

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
65*45*14	59*39	Φ4

DC-03W Dot-matrix LED Display



Product Features

- DC24V power, 32-bit processor
- CANBUS communication
- All ASC characters can be displayed
- Calling, locking and fire protection function
- OL, FL, maintenance information is optional
- White dot-matrix LED rolling display

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
144*70*12.2	134*56	Φ4

DC-05B Dot-matrix LED Display



Product Features

- Orange square dot-matrix LED
- Open CANBUS protocol
- Real-time display elevator floor and running direction
- Display fire, overload

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
185.1*115*12.6	175*75	Φ4

DC-03H(S) Dot-matrix LED Display



Product Features

- DC24V power, 32-bit processor
- CANBUS communication
- Round dot matrix LED display
- Display floor, direction, OL, FL, and overhaul information
- Output of arrival lamp or bell
- DC-03HS: optional for red square dot-matrix LED

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
144*70*11.6	134*56	Φ4

DC-07 Series Segment LED Display



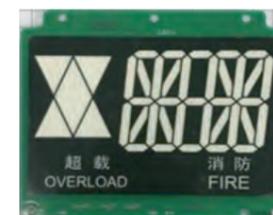
DC-07Q DC-07P

Product Features

- 4.3 inch, white segment LED on black background
- CANBUS communication
- Ultra-thin design
- Function for hall call, parking, fire
- Display for overload, full load, maintenance

Type	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
DC-07Q	132.5*72*6.8	118*60	Φ4
DC-07P	150*70.5*9.5	124*61.5	Φ4

DC-09A Segment LED Display

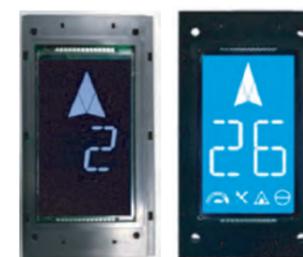


Product Features

- 6.4 inch, white segment LED on black background
- CANBUS communication
- Function for hall call/parking/fire
- Display for overload, full load, maintenance

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
129*118*14	109*88	Φ4

DC-07 Series Segment LCD



DC-07I DC-07K

Product Features

- 4.3 inch, white segment LED on black(07I) / blue (07K) background
- CANBUS communication
- Function for hall call, parking, fire
- Display for overload, full load, maintenance

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
141*79.5*14.5	118*60	Φ4

DC-07 Series Segment LCD



DC-07D DC-07S

Product Features

- 6.4 inch, white segment LCD on blue (07D) / black (07S) background
- RS485 communication
- Display for overload, fire, maintenance

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
178*130*18	160*105	Φ4

DC-05 Series Segment LCD



DC-05HB



DC-05H

Product Features

- 5 inch, white segment LED on blue (05HB) / black (05H) background
- CANBUS communication
- Function for hall call, parking, fire
- Display for overload, full load, maintenance

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
141*94*19	125*77	Φ4

LM21 Series Multimedia Picture Machine



Model	LM21-056	LM21-070	LM21-104
Size of LCD	5.6inch (4:3)	7inch (16:9)	10.4inch (4:3)
LCD Resolution(Pixels)	640*480	800*480	640*480

Product Features

- Display the floor, running direction, overload, fire alarm, full load, stopping and inspection information
- Floor reporting or background music playing. The displaying will stop automatically if no calling signal for 10 minutes;
- Display the data, time, LOGO of customers and words;
- Color pictures used for corporate identify and commercial advertising;
- The user can use Micro SD to update the displayed images and audio files and change the displayed interfaces and modes. Horizontal and vertical installation is available.

Commissioning Tools



EC100-PAD

Product Features

- Optional for English, Chinese and Turkish menu
- Parameter setting/copy, fault inquiry, running monitoring, etc



Yitiao App (Android ≥4.0.3)

Product Features

- Language display follow system setting
- Parameter setting/copy, fault inquiry, running monitoring, etc support online assistance



Bluetooth Module

INVT Series COP & HOP



Dimensions of COP

Floor	Panel (LxW mm)	Bottom Box (LxWxD mm)
1-10	1200*180	1180*157*70
11-18	1360*180	1340*157*70
19-24	1560*180	1540*157*70
25-33	1540*220	1520*200*70
Customized	Customized	Customized

Dimension of HOP

Type	Panel (LxW mm)	Bottom Box (LxWxD mm)
Simplex	440*115	419*95*62.5
Duplex	440*200	419*183*62.5
Customized	Customized	Customized

Material

Hairline, titanium plated gold, rose gold, mirror stainless steel

Display

Optional for multi-media LCD, segment LCD, dot-matrix LED

Button Light Color

Optional for blue, red light button

TH Series COP & HOP



Dimensions of COP

Type	Appearance(LxWxD mm)
CPTH-070	1000*175*15 / 1200*235*15
CPTH-185	287.5*525*50.5

Dimension of HOP

Type	Appearance(LxWxD mm)
HPTH-043(Simplex)	260*98*15
HPTH-050(Duplex)	260*140*15

Material

Tempered Glass

C & LBH Series HOP



Dimension

Type	Appearance(LxWxD mm)
C100	350*96*15
C200	330*98*17
C300	380*100*15
LBH130	335*102*20

Installation

Wall-mounted

DM04A IoT & Cloud Monitoring Module

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
124.5*76	115*38	Φ3.5

About the Product

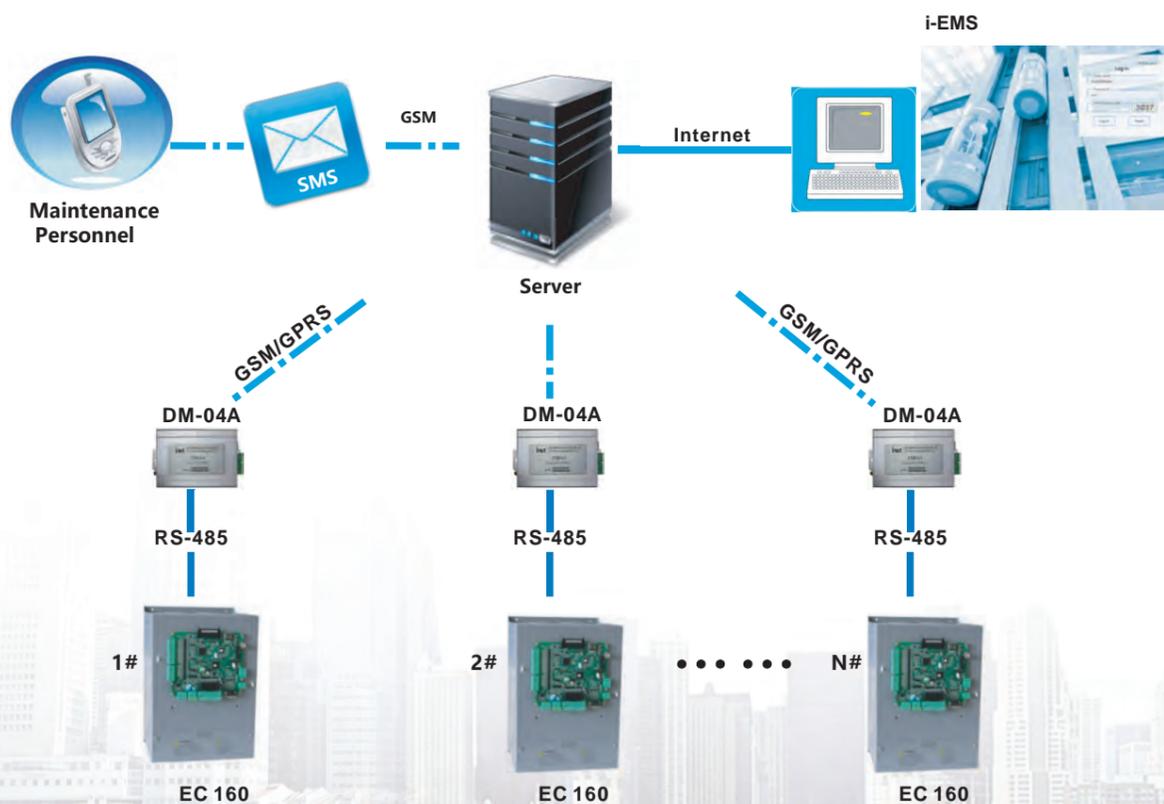
DM04A is a new generation of elevator monitoring system, which uses the latest technology of communication, IoT (Internet of Things) and cloud. Visiting the i-ESM page on browser, we can remotely control the elevator like remote elevator stopping, matching, failure enabling and other operations, and analyze, save the running data and maintenance records to enhance the management of elevator and maintenance

Product Features

- Real-time monitor system on the basis of Internet
- Dynamic real-time monitoring operation and early warning
- Real-time failure records and warning through collection of signal, analysis failure and records of operation
- Supervision and management of maintenance technician, real-time records of maintenance personnels' operation
- CAN port compatible



IoT & Cloud Monitoring System



DM-03 GSM Monitoring Module

Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
146*86*39	136.3	Φ4.5

About the Product

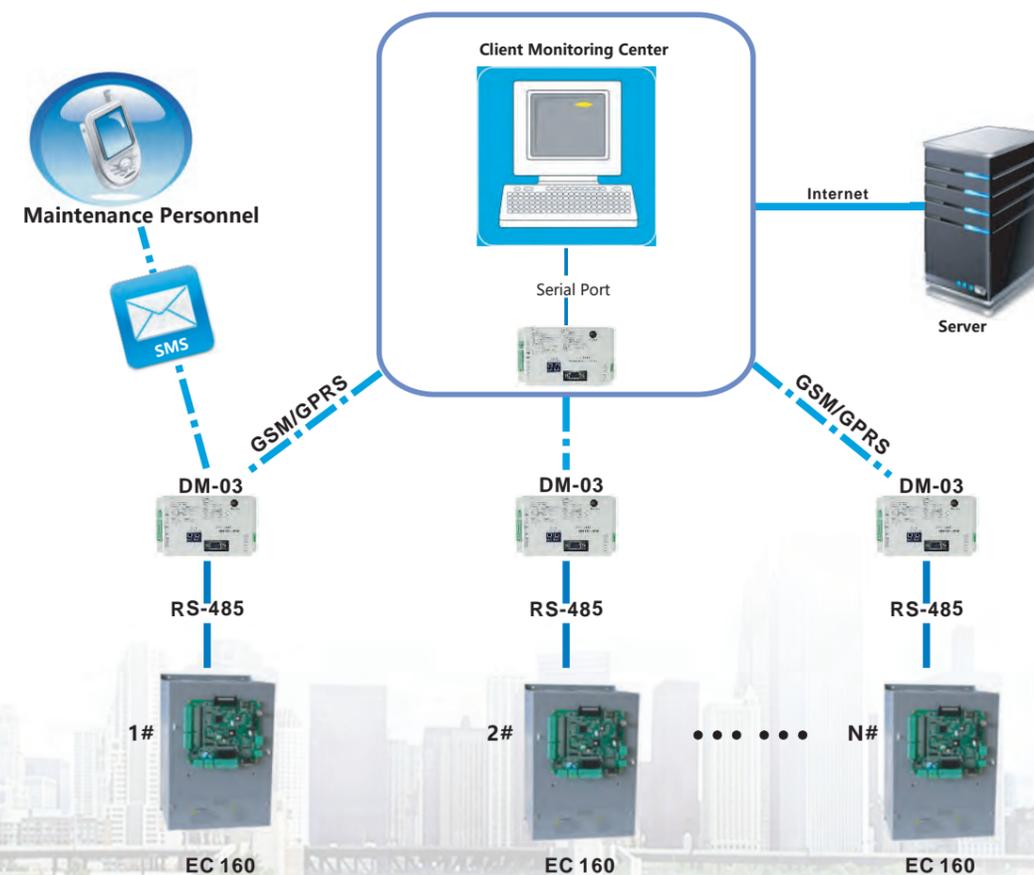
DM-03 is a transmission module specially designed for elevator fault alarm. Using GSM, RS485 communication technology, informing maintenance staff directly by SMS when the elevator break down, it realizes the point-to-point connection between the elevator and maintenance personnel, reduces the delay as the network connection, and it is very suitable for areas have no network service or poor network service.

Product Features

- Realize elevator SMS alarm, elevator monitoring
- Elevator state monitoring: parking, maintenance, overload, fire, door open/close, etc
- System service: inquiry and print of elevator information, fault, maintenance records.
- Maximum 5 phone number can be set for SMS alarm



GSM/GPRS Alarm System



Community Monitoring System

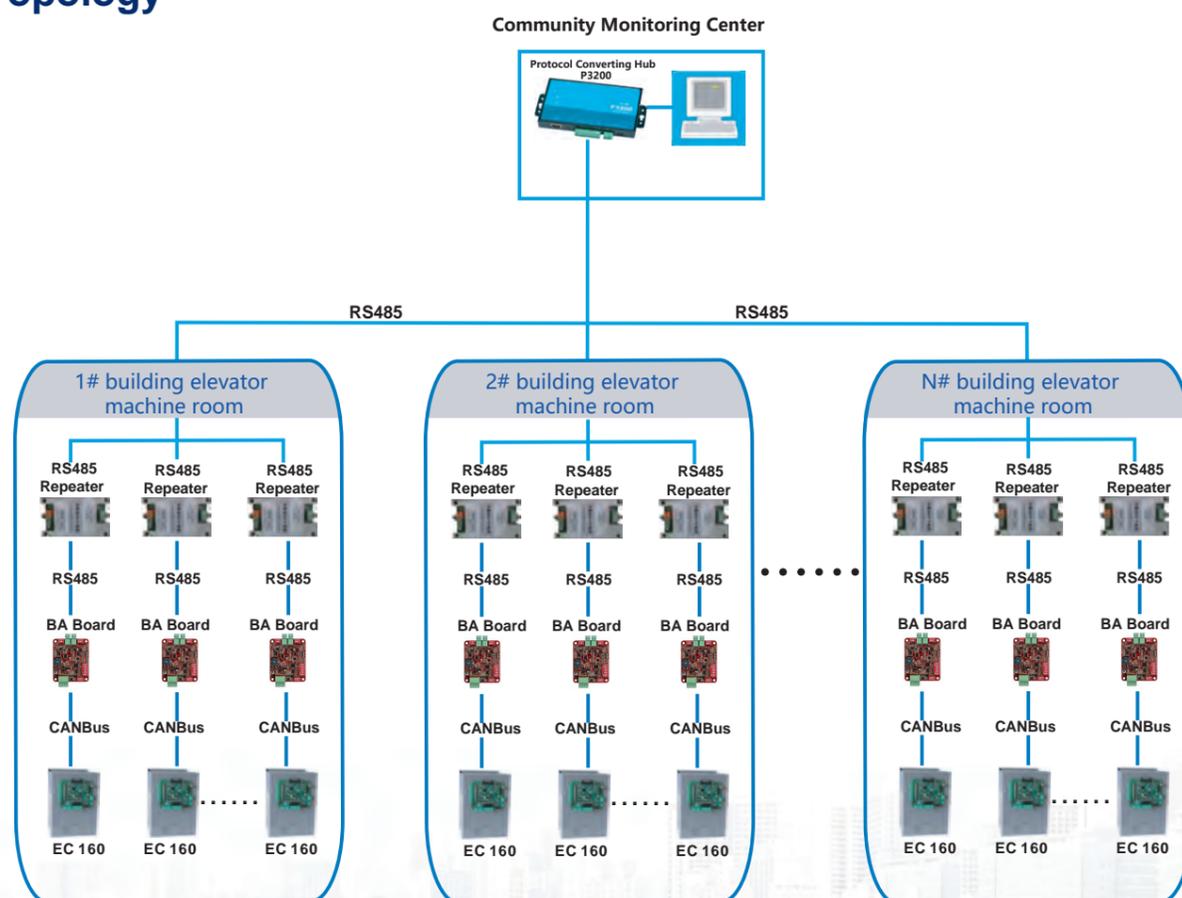
About the Product

The community monitoring system is a local area management system specially designed for the elevator management in a small range. Integrating Ethernet, CANbus, RS485 communication technologies, it can realize the local real-time monitoring of the elevator in the community, collect and analyze the running data and fault records to improve the efficiency of elevator management.

Product Features

- Dynamic real-time monitoring of elevator running and early warning, data-saving in server, black box function
- Easy installation: only a home router and a computer can set up the monitoring center
- Support monitoring of maximum 128 elevators

Topology



Elevator Control Cabinet

Product Features

- Based on EC100/EC160 elevator integrated controller
- Max. speed: 6m/s, Max floor: 64
- Simplex, duplex and group control
- CANBUS communication
- Leveling accuracy: 2mm
- Safety standard: EN81



Control cabinet DSC-EC100-VVVF
Dimension: 1200*600*330(mm)



Control cabinet DSC-EC100-VVVF
Dimension: 1000*590*320(mm)



Machine Room-less control cabinet DSC-EC100-VVVF-MRL
Dimension: 1600*450*270(mm)

Power Degree

Model	Input Voltage	Rated Output Power(kW)	Rated Output Current (A)	Dimension(mm)	
DSC-EC160-VVVF-2R2	1PH AC 220V ± 15%	2.2	11	1000*590*320	
DSC-EC160-VVVF-004		4	10	1000*590*320	
DSC-EC160-VVVF-5R5		5.5	14	1000*590*320	
DSC-EC160-VVVF-7R5		7.5	18	1000*590*320	
DSC-EC160-VVVF-011		11	27	1000*590*320	
DSC-EC160-VVVF-015		3PH AC 380V ± 15%	15	34	1000*590*320
DSC-EC160-VVVF-018			18	38	1000*590*320
DSC-EC160-VVVF-022			22	46	1200*600*320
DSC-EC160-VVVF-030			30	62	1200*600*320
DSC-EC160-VVVF-MRL-2R2			1PH AC 220V ± 15%	2.2	11
DSC-EC160-VVVF-MRL-004	3PH AC 380V ± 15%	4	10	1600*450*270	
DSC-EC160-VVVF-MRL-5R5		5.5	14	1600*450*270	
DSC-EC160-VVVF-MRL-7R5		7.5	18	1600*450*270	
DSC-EC160-VVVF-MRL-011		11	27	1600*450*270	
DSC-EC160-VVVF-MRL-015		15	34	1600*450*270	

Model	Input Voltage	Rated Output Power(kW)	Rated Output Current (A)	Dimension(mm)	
DSC-EC100-VVVF-2R2	1PH AC 220V ± 15%	2.2	11	1000*590*320	
DSC-EC100-VVVF-004		4	10	1000*590*320	
DSC-EC100-VVVF-5R5		5.5	14	1000*590*320	
DSC-EC100-VVVF-7R5		7.5	18	1000*590*320	
DSC-EC100-VVVF-011		11	27	1000*590*320	
DSC-EC100-VVVF-015		3PH AC 380V ± 15%	15	34	1000*590*320
DSC-EC100-VVVF-018			18	38	1000*590*320
DSC-EC100-VVVF-022			22	46	1200*600*320
DSC-EC100-VVVF-030			30	62	1200*600*320
DSC-EC100-VVVF-MRL-2R2			1PH AC 220V ± 15%	2.2	11
DSC-EC100-VVVF-MRL-004	3PH AC 380V ± 15%	4	10	1600*450*270	
DSC-EC100-VVVF-MRL-5R5		5.5	14	1600*450*270	
DSC-EC100-VVVF-MRL-7R5		7.5	18	1600*450*270	
DSC-EC100-VVVF-MRL-011		11	27	1600*450*270	
DSC-EC100-VVVF-MRL-015		15	34	1600*450*270	

Inspection Box

Product Features

- Apply plug-in wiring, easy to install, easy to maintain
- Inspection box equipped with EC-CTB, to simplify the COP-Car operation panel wiring
- CANBUS communication
- Safety standard: EN81



Car top inspection box

Appearance dimension: 520X340X120(HXWXDmm)



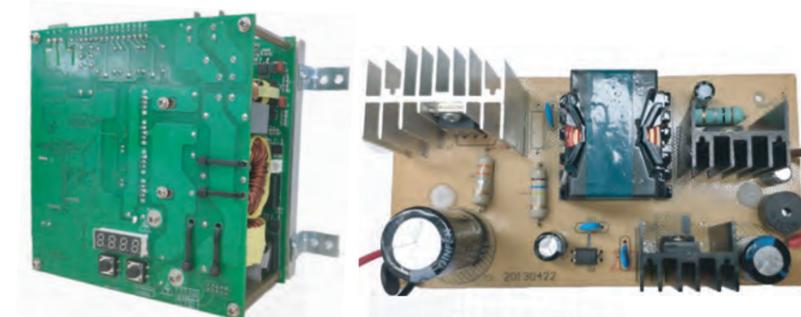
Pit inspection box

Appearance dimension, Main: 500X325X250 Subsidiary: 140X72X60(HXWXDmm)

ARD-Automatic Rescue Device



Independent Cabinet Model



Cabinet Integrated Model

Product Features

- Intelligent microprocessor design, in any emergency, main power automatic detection and backup power automatic switching
- VVVF technology, reliable power supply
- Compact mechanical design
- Easy installation and safe operation

Sales Network



★ INVT Headquarters

INVT Office & Service in 10 countries

Sales and Service Partners in 68 countries