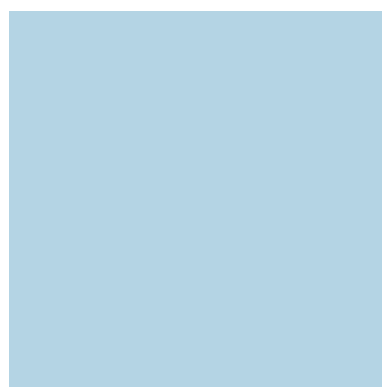
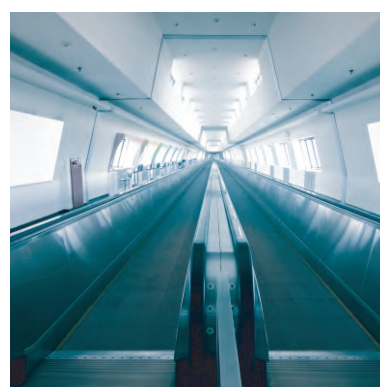
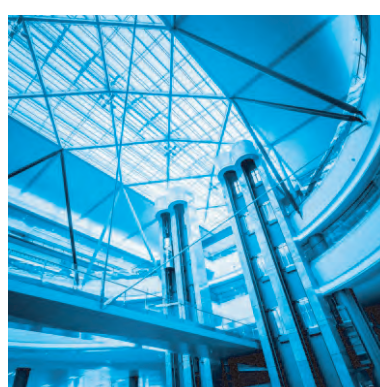
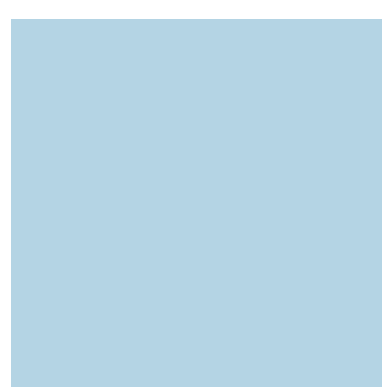


INVNT Elevator Products Catalog







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GD200L Series Elevator AC Drive

About the Product

GD200L is INVT newly-designed AC drive based on years of industry experience on motor drive, dedicated for elevator with asynchronous motor. By applying the most advanced speed-sensorless vector control technology as well as simple closed loop vector control and optimized DSP control algorithm, GD200L has outstanding reliability and performance to meet the requirement of low-cost application of elevator with asynchronous motor.



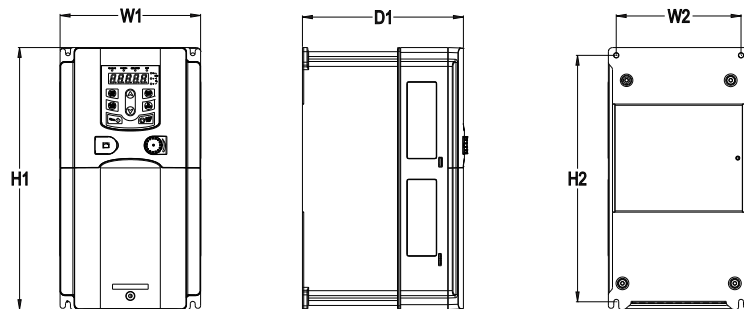
Main Features

- support geared motor, open loop control mode and closed loop control mode with DC24V incremental encoder
- Compact design to save the space, easy to install, low cost
- Support the emergency rescue running function with single phase UPS.
- Easy Debugging and very small parameter list
- Optimized S-curve algorithm and running & brake contactor control

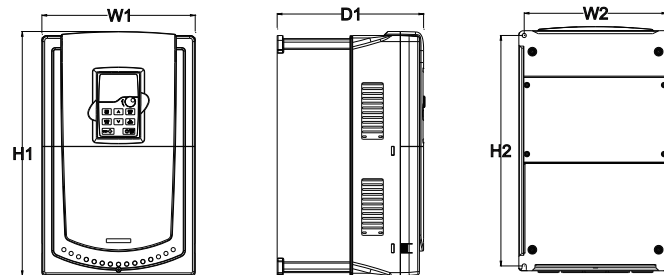
Configuration

Model	Input voltage	Output power (kW)	Input current (A)	Output current (A)	Braking unit	Braking resistor
GD200L-004G-4	AC 3PH 380V (-15%) ~ 440V (+10%)	4	13.5	9.5	Built-in	75Ω/1200W
GD200L-5R5G-4		5.5	19.5	14		55Ω/1500W
GD200L-7R5G-4		7.5	25	18.5		50Ω/2000W
GD200L-011G-4		11	32	25		40Ω/4000W
GD200L-015G-4		15	40	32		32Ω/4500W
GD200L-018G-4		18.5	47	38		28Ω/5000W
GD200L-022G-4		22	56	45		22Ω/7000W
GD200L-030G-4		30	70	60		20Ω/10000W
GD200L-037G-4		37	80	75	DBU100H-060-4	16Ω/10000W
GD200L-045G-4		45	94	92	DBU100H-110-4	13Ω/12000W
GD200L-055G-4	AC 3PH 220V (-15%) ~ 240V (+10%)	55	128	115	Built-in	12Ω/15000W
GD200L-004G-2		4	17	16		35Ω/1200W
GD200L-5R5G-2		5.5	21	20		25Ω/1500W
GD200L-7R5G-2		7.5	31	30		20Ω/2000W
GD200L-011G-2		11	43	42		15Ω/4000W
GD200L-015G-2		15	56	55		10Ω/4500W
GD200L-018G-2		18.5	71	70	DBU100H-060-2	8Ω/5000W
GD200L-022G-2		22	81	80	DBU100H-110-2	6Ω/7000W
GD200L-030G-2		30	112	110		5Ω/8000W

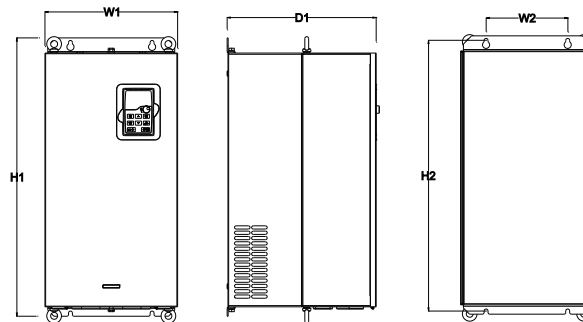
Appearance and Installation Dimensions



0.75-15kW wall mounting



18.5-30kW wall mounting



37-110kW wall mounting

Input voltage	Output power (kW)	W1 (mm)	H1 (mm)	D1 (mm)	H2 (mm)	W2 (mm)	Installation hole (d:mm)
AC 3PH 380V(-15%) ~ 440V (+10%)	4kW~5.5kW	146	256	181	243.5	131	6
	7.5kW~15kW	170	320	216	303.5	151	6
	18.5kW	230	342	216	311	210	6
	22kW~30kW	255	407	245	384	237	7
	37kW~55kW	270	555	325	540	130	7
AC 3PH 220V(-15%) ~ 240V (+10%)	4kW~7.5kW	170	320	216	303.5	151	6
	11kW~15kW	255	407	245	384	237	7
	18kW~30kW	270	555	325	540	130	7

GD300L Series Elevator AC Drive

About the Product

The GD300L series is INVT's mature and competitive elevator-specific AC drive, developed on the company's latest and most advanced drive platform. Utilizing DSP and advanced vector control technology, the GD300L series achieves significant improvements in safety, reliability, control performance, and functionality, making it an ideal solution for modern elevator systems.



Main Features

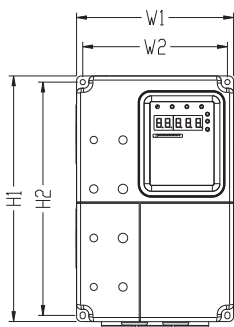
- Supports both open & closed loop vector control for asynchronous and PM synchronous motors
- Integrates forced deceleration to prevent top/bottom overtravel during running
- Enables emergency rescue operation with AC220V UPS and light-load direction search
- Advanced torque compensation algorithm (with/without load cell) prevents rollback and ensures smooth starting
- Compatible with multiple encoder types: incremental, SIN/COS, absolute, and UVW encoders
- Optional external LCD keypad with multi-language support

Configuration

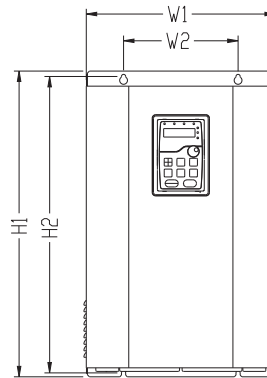
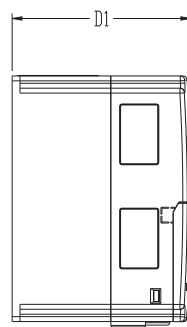
Model	Input voltage	Rated Power(kW)	Input Current(A)	Output Current(A)	Braking unit	Braking resistor
GD300L-2R2G-S2	AC 1PH 220V (-15%) ~ 240V (+10%)	2.2	23	10	Built-in	100Ω/1000W
GD300L-004G-2	AC 3PH 220V (-15%) ~ 240V (+10%)	4	17	16		35Ω/1200W
GD300L-5R5G-2		5.5	21	20		25Ω/1500W
GD300L-7R5G-2		7.5	31	30		20Ω/2000W
GD300L-011G-2		11	43	42		15Ω/4000W
GD300L-015G-2		15	56	55	DBU100H-060-2	10Ω/4500W
GD300L-004G-4	AC 3PH 380V (-15%) ~ 440V (+10%)	4	13.5	9.5	Built-in	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		32Ω/4500W
GD300L-018G-4		18.5	47	38	DBU100H-060-4	28Ω/5000W
GD300L-022G-4		22	56	45		22Ω/7000W
GD300L-030G-4		30	70	60		20Ω/10000W

Note: Please contact INVT if any other model is required.

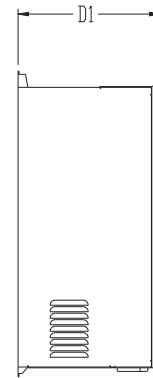
Appearance and Installation Dimensions



Wall mounting diagram for 2.2 kW~15 kW



Wall mounting diagram for 18.5 kW~30 kW

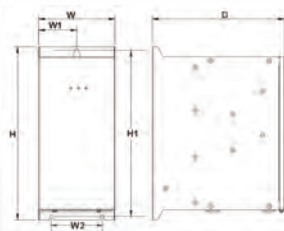


Input voltage	Output power (kW)	W1 (mm)	H1 (mm)	D1 (mm)	H2 (mm)	W2 (mm)	Installation hole (d:mm)
AC 1PH 220V (-15%) ~ 240V (+10%)	2.2kW	220	320	180	305.5	206	6
AC 3PH 220V (-15%) ~ 240V (+10%)	2.2kW	160	250	175	237.5	147.5	5
	4kW~7.5kW	220	320	180	305.5	206	6
	11kW~15kW	290	470	220	455.5	176	6.5
AC 3PH 380V (-15%) ~ 440V (+10%)	2.2kW~5.5kW	160	250	175	237.5	147.5	5
	7.5kW~15kW	220	320	180	305.5	206	6
	18kW~30kW	290	470	220	455.5	176	6.5

Expansion Card

Model	Material code	Picture	Category	Description	
EC-PG101-05	11023-00014		PG card for asynchronous motor	5V Incremental PG card	Special for incremental encoder, power supply output :-05(4.75~7V), -12(11.75~16V), -24(24V±5%)
EC-PG101-12	11023-00003			12-15V Incremental PG card	
EC-PG101-24	11023-00004			24V Incremental PG card	
EC-PG102-05-T	11023-00092		PG card for synchronous motor	Sin/Cos PG card	Special for SIN/COS encoder like ERN1387, power supply output 5V±5%, 300mA
EC-PG106-05-T	11023-00093			Absolute encoder PG card	Special for ENDAT/SSI encoder like ECN1313, power supply output 5V±5%, 300mA
EC-PG106-05-S	11023-00152				

Braking Unit



Model	W(mm)	H(mm)	D(mm)	H1(mm)	W1(mm)	W2(mm)
DBU100H-060-2	130	260	163	246	65	65
DBU100H-060-4						
DBU100H-110-2	150	340	248	326	75	100
DBU100H-110-4						

GD390L Series Elevator AC Drive

About the Product

GD390L is a new generation of high-performance, elevator-specific AC drives that integrates drive technology, control systems, and network communication. It features essential safety functions including STO (Safe Torque Off), electronic star-point sealing, C2 filtering, and an LCD keypad, making it suitable for various elevator applications. The drive delivers reliable performance with enhanced safety features and flexible customization options to meet different operational requirements.



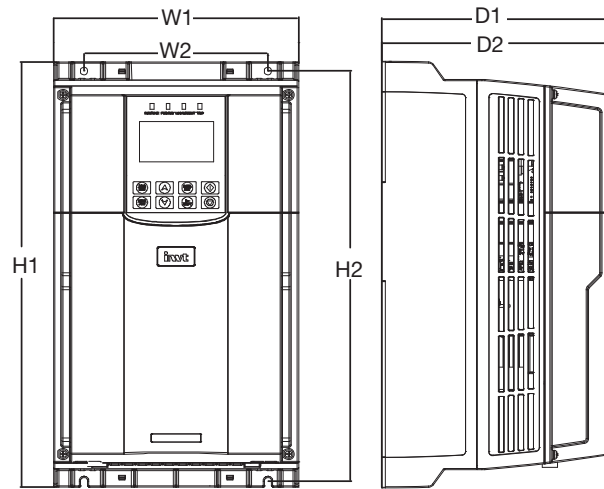
Main Features

- STO (SIL3 certified) with synchronous motor star-point locking for safety
- Dual-CPU (MCU+DSP) design enables strong scalability and flexible customization
- Enhanced EMC filtering performance with optional built-in C2 filter
- Built-in incremental encoder input, and PG card expansion for incremental, sin/cos, Endat, and SSI absolute encoders
- Configurable MCU board for secondary integration and development
- Advanced S-curve algorithm improves dynamic response and ride comfort
- Load cell-free start/stop compensation for smooth running
- Automatic light-load detection in emergency mode reduces backup power consumption
- Expandable I/O terminals with standard LCD and optional LED keypad

Configuration

Model	Power supply	Rated Power(kW)	Input Current(A)	Output Current(A)	Net Weight(kg)	Braking Unit	Braking Resistor
GD390L-2R2G-S2	AC 1PH 220V (-15%) ~ 240V (+10%)	2.2	24	10	3.6	Built-in	100Ω/1000W
GD390L-2R2G-2	AC 3PH 220V (-15%) ~ 240V (+10%)	2.2	12	10	3.4		50Ω/1000W
GD390L-004G-2		4	21	18.5	3.6		35Ω/1200W
GD390L-5R5G-2		5.5	30	27	4.6		25Ω/1500W
GD390L-7R5G-2		7.5	38	34	4.8		20Ω/2000W
GD390L-011G-2		11	52	48	/		15Ω/4000W
GD390L-015G-2		15	65	60	15.7		10Ω/4500W
GD390L-018G-2		18.5	78	75	15.8		12Ω/6400W
GD390L-004G-4	AC 3PH 380V (-15%) ~ 440V (+10%)	4	14	10	3.5		75Ω/1200W
GD390L-5R5G-4		5.5	19	14	3.5		55Ω/1500W
GD390L-7R5G-4		7.5	24	18.5	3.8		50Ω/2000W
GD390L-011G-4		11	32	27	4.6		40Ω/4000W
GD390L-015G-4		15	40	34	4.8		32Ω/4500W
GD390L-018G-4		18.5	47	40	/		28Ω/5000W
GD390L-022G-4		22	54	48	/		22Ω/7000W
GD390L-030G-4		30	70	60	16.2		20Ω/10000W
GD390L-037G-4		37	80	75	16.5		12Ω/12000W

Appearance and Installation Dimensions



Input voltage	Output power (kW)	W1 (mm)	H1 (mm)	D1 (mm)	H2 (mm)	W2 (mm)
AC 1PH 220V (-15%) ~ 240V (+10%)	2.2kW	200	347	190	334.5	150
AC 3PH 220V (-15%) ~ 240V (+10%)	2.2kW~4kW	200	347	190	334.5	150
	5.5kW~7.5kW	200	347	197.5	334.5	150
	15kW~18kW	270	455	218	436	225
AC 3PH 380V (-15%) ~ 440V (+10%)	4kW~7.5kW	200	347	190	334.5	150
	11kW~15kW	200	347	197.5	334.5	150
	30kW~37kW	270	455	218	436	225

Expansion Card

Model	Material code	Picture	Category	Description	
EC-PG101-05	11023-00014		PG card for asynchronous motor	5V Incremental PG card	Special for incremental encoder, power supply output :-05(4.75~7V), -12(11.75~16V), -24(24V±5%)
EC-PG101-12	11023-00003			12-15V Incremental PG card	
EC-PG101-24	11023-00004			24V Incremental PG card	
EC-PG102-05-T	11023-00092		PG card for synchronous motor	Sin/Cos PG card	Special for SIN/COS encoder like ERN1387, power supply output 5V±5%, 300mA
EC-PG106-05-T	11023-00093			Absolute encoder PG card	Special for ENDAT/SSI encoder like ECN1313, power supply output 5V±5%, 300mA
EC-PG106-05-S	11023-00152				

GD290L Series Escalator AC Drive

About the Product

GD290L is a multifunctional AC drive dedicated for escalators, supporting both synchronous and asynchronous motors with advanced vector control for stable performance in complex conditions. Its rugged design features independent air ducts and enhanced circuit board coating for harsh environments, ensuring long-term reliability and reduced maintenance. With multi-protocol communication (CAN/PROFINET) and excellent EMC performance, it integrates seamlessly with control systems. The compact high-power design reduces installation costs while maintaining operational stability in complex conditions.



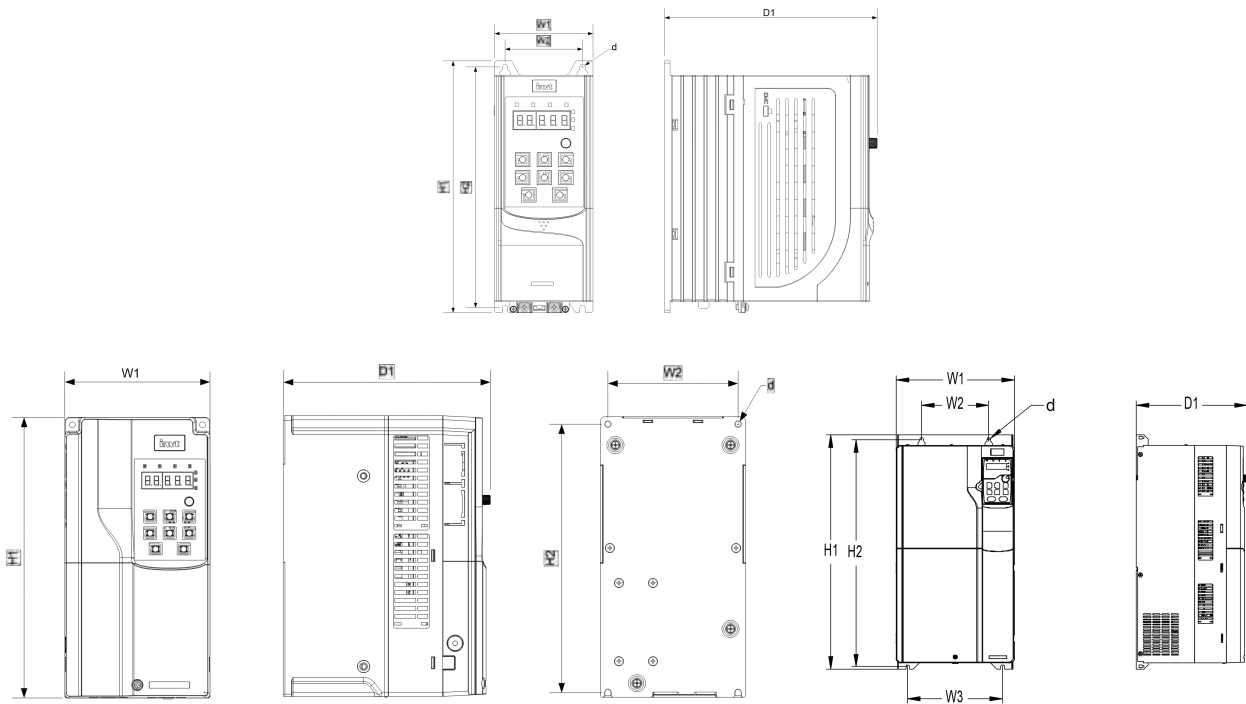
Main Features

- Customized designs specifically for escalator applications
- Advanced vector control technology ensures stable operation under various working conditions
- Optimized hardware circuits guarantee reliable performance in complex electromagnetic environments
- Supports seamless switching between industrial and frequency conversion modes
- Capable of reduced-capacity operation to lower escalator failure rates
- Wide voltage range design (AC 3PH 380V[-15%]~440V[+10%]) adapts to harsh power grid conditions
- Features built-in PLC card with 16K program storage for customer secondary development
- Pre-configured scenarios available to meet customized demands and reduce implementation costs

Configuration

Model	Input voltage	Output power (kW)	Input current (A)	Output current (A)
GD290L-004G-4-C2	AC 3PH 380V (-15%) ~ 440V (+10%)	4	15	9.5
GD290L-5R5G-4-C2		5.5	20	13
GD290L-7R5G-4-C2		7.5	27	17
GD290L-011G-4-C2		11	35	25
GD290L-015G-4-C2		15	44	32
GD290L-018G-4-C2		18.5	46	38
GD290L-022G-4-C2		22	54	45
GD290L-030G-4-L1		30	56	60
GD290L-037G-4-L1		37	69	75
GD290L-045G-4-L1		45	101	92
GD290L-055G-4-L1		55	117	115

Appearance and Installation Dimensions



Input voltage	Model	W1 (mm)	H1 (mm)	D1 (mm)	H2 (mm)	W2 (mm)	Installation hole (d:mm)
AC 3PH 380V(15%) ~ 440V (+10%)	4kW	89	231	193	221	70	5
	5.5kW~7.5kW	89	259	211.5	248	70	6
	11kW~15kW	145	280	207	268	130	
	18.5kW~22kW	169	320	214	308	154	
	30kW~37kW	200	341	214	328.5	185	
	45kW	250	400	228	380	230	
	55kW	282	560	264	542	160	

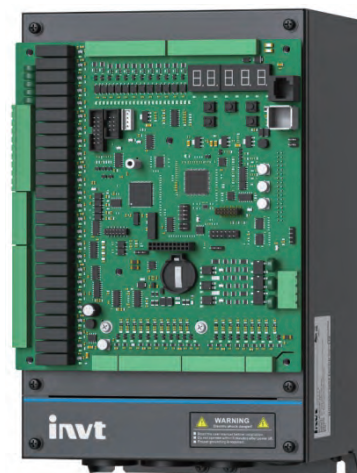
Expansion Card

Name	Model	Material code	Function
Mains Synchronization & Acquisition Card	EC-PD101-01	11023-00191	Voltage Acquisition (2 channels): Load-side voltage at the output reactor of the inverter, Grid-connected side voltage Current Sampling (3 channels): Load-side current at the output reactor of the inverter
Mains Synchronization & Voltage Divider Card	EC-PD101-02	11023-00190	Step-down the high-voltage signal to a reduced signal of approximately 5Vmax and transmit it to the acquisition card.

EC90B Series Open Loop Elevator Integrated Controller

About the Product

EC90B represents a new generation of intelligent elevator open-loop control system that incorporates integrated drive, control, and network communication technologies. Integrating advanced variable frequency vector control technology, intelligent control algorithms, and networked communication capabilities, it seamlessly integrates elevator drive, control, and management functions, and delivers significant improvements in safety, reliability, operational convenience, cost-effectiveness, and design customization.



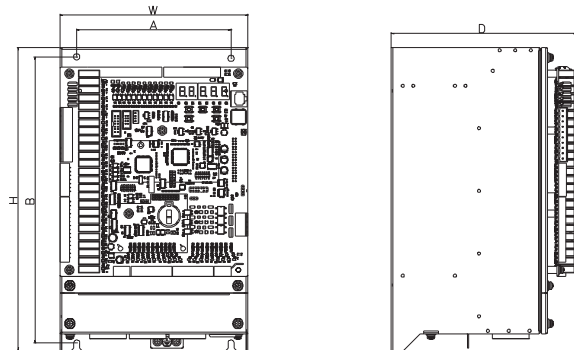
Main Features

- Supports up to 15 floors (with floor expansion board), max speed 1.0 m/s (open loop), 1.5 m/s (closed loop)
- Compatible with both geared motors and PM motors
- Operates in open/closed loop modes (PG card required for closed loop)
- Supports parallel/semi-serial communication
- Multiple commissioning tools: external LCD keypad, built-in keypad, Bluetooth-enabled phone app
- Emergency rescue operation with UPS power supply
- Built-in RTC circuit enables date/time-based lock function
- Custom protocol prevents unauthorized spare part replacement

Configuration

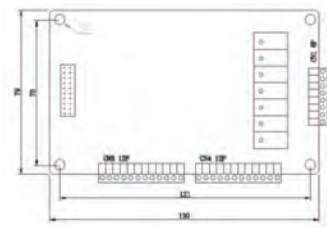
Model	Input voltage	Rated power(kW)	Input current (A)	Output current (A)	Braking unit	Braking resistor
EC90B-004-4	3PH AC380V±15%	4.0	13.5	9.5	Built-in	75Ω/1200W
EC90B-5R5-4		5.5	19.5	14.0	Built-in	55Ω/1500W

Appearance and Installation Dimensions



Model	W (mm)	H (mm)	D (mm)	A (mm)	B (mm)	Diameter of mounting hole(mm)	Mounting bolt
EC90B-004-4	180	290	180	148	274	Φ6	M5
EC90B-5R5-4	180	290	180	148	274	Φ6	M5

Floor Expansion Card



Note: optional for floor expansion up to 15 floors.

Model	Material code	Appearance dimensions		Installation dimension		
		L(mm)	W(mm)	L(mm)	W(mm)	Diameter of mounting hole(mm)
EC-EBA	11023-00178	130	79	121	70	Φ5

EC160A/EC160B Series Elevator Integrated Controller

About the Product

The EC160A/EC160B series elevator integrated controller is an advanced intelligent control system that combines drive, control, and network communication technologies. Utilizing closed-loop vector control, smart elevator control, and network communication, it ensures efficient integration of elevator control, drive, and management functions.

Note: EC160A: Control board includes an integrated terminal block for inputs.

EC160B: Uses a dedicated plug-in board (see page 18) for inputs, connected to the control board via a flat cable.



EC160A

EC160B



Main Features

- Full compliance with EN81-20/50 safety standards
- Maximum speed 6m/s, maximum capacity 64 floors
- Integrated phase sequence detection eliminates control panel phase relay
- Advanced group control supports simultaneous operation of 8 elevators
- High-performance load cell-free starting compensation technology
- Emergency rescue operation with AC220V UPS and automatic light-load detection
- Space-saving highly integrated design optimizes control panel layout
- Multiple debugging options including mobile app, LCD keypad and integrated control panel
- Continuous safety monitoring for brake force and door lock circuit protection
- Innovative PWM dead zone compensation reduces motor noise and energy loss
- Standard built-in PG card supports SIN/COS and incremental encoders, with optional plug-in card for Endat/SSI absolute encoders

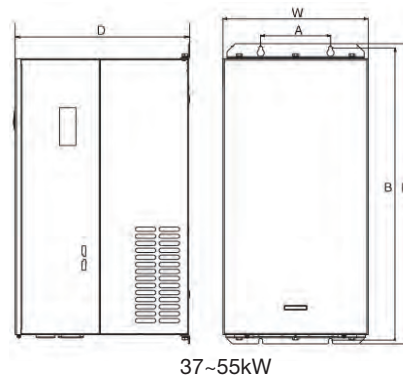
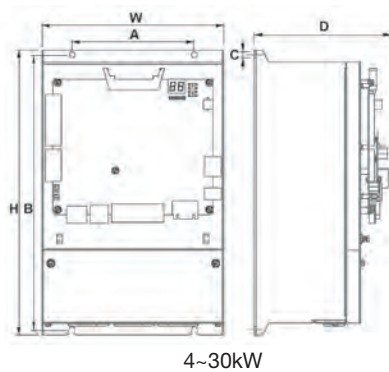
Comprehensive Technical Parameters

Item	Name	Description
Electrical specification	Input voltage range	AC 3PH 400V±15% AC 3PH 220V±15%
	Input frequency range	47~63Hz
	Output voltage range	0~rated input voltage
	Output frequency range	0~400Hz
Peripheral I/O specification	Low-voltage digital input	24 digital inputs, 9~30V
	Safety & door lock detection input	5 high voltage detection inputs, 110V/220V
	Digital output	Standard: 6 relay NO outputs, 5A/250 VAC
	Communication interface	2 groups of CANbus, 2 groups of Modbus
Performance specification	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
	Overload capacity	150% of the rated current: 60s, 180% of the rated current: 10s, 200% of the rated current: 1s
	Starting Torque	Sensorless vector control: 0.5Hz/150% (SVC); PG vector control: 0Hz/180% (VC)
	Speed control accuracy	Sensorless vector control: ±0.5% of the Max. speed; PG vector control: ±0.1% of the Max. speed
	Carrier frequency	1.0~16kHz, adjust carrier frequency automatically according to load characteristics, default value: 6kHz

Configuration

Model (EC160A)	Model (EC160B)	Input Voltage	Rated power (kW)	Output current (A)	Braking unit	Braking resistor
EC160-2R2-S2(A)	/	AC 1PH 220V $\pm$ 15%	2.2	11.0	Built-in	100 Ω /1000W
EC160-004-2(A)	/	AC 3PH 220V $\pm$ 15%	4.0	18.5		35 Ω /1200W
EC160-5R5-2(A)	EC160-5R5-2(B)		5.5	27.0		25 Ω /1500W
EC160-7R5-2(A)	EC160-7R5-2(B)		7.5	34.0		20 Ω /2000W
EC160-011-2(A)	EC160-011-2(B)		11.0	46.0		15 Ω /4000W
EC160-015-2(A)	EC160-015-2(B)		15.0	62.0		10 Ω /4500W
EC160-018-2(A)	EC160-018-2(B)		18.5	75.0		8 Ω /5000W
EC160-022-2(A)	EC160-022-2(B)	AC 3PH 400V $\pm$ 15%	22.0	92.0	DBU100H-060-2	7 Ω /6500W
EC160-004-4(A)	/		4.0	11.0	Built-in	75 Ω /1200W
EC160-5R5-4(A)	EC160-5R5-4(B)		5.5	13.0		55 Ω /1500W
EC160-7R5-4(A)	EC160-7R5-4(B)		7.5	18.5		50 Ω /2000W
EC160-011-4(A)	EC160-011-4(B)		11.0	27.0		40 Ω /4000W
EC160-015-4(A)	EC160-015-4(B)		15.0	34.0		32 Ω /4500W
EC160-018-4(A)	EC160-018-4(B)		18.5	38.0		28 Ω /5000W
EC160-022-4(A)	EC160-022-4(B)		22.0	46.0		22 Ω /7000W
EC160-030-4(A)	EC160-030-4(B)		30.0	62.0		20 Ω /10000W
EC160-037-4(A)	EC160-037-4(B)		37.0	75.0	DBU100H-060-4	14 Ω /11100W
EC160-045-4(A)	EC160-045-4(B)		45.0	92.0	DBU100H-110-4	11 Ω /13500W
EC160-055-4(A)	EC160-055-4(B)		55.0	115		9 Ω /16500W

Appearance and Installation Dimensions



Input voltage	Power(kW)	W(mm)	H(mm)	D(mm)	A(mm)	B(mm)	C(mm)	Mounting bolt
AC 3PH 220V $\pm$ 15%	4~7.5	223	347	169	150	334.5	Φ 7	M6
	11~15	290	426	233	235	410	Φ 7	M6
AC 3PH 400V $\pm$ 15%	4~5.5	223	347	168	150	334.5	Φ 7	M6
	7.5~15	223	347	169	150	334.5	Φ 7	M6
	18.5~30	290	426	233	235	410	Φ 7	M6
	37~55	270	555	325	130	540	Φ 7	M6

EC300 Series Four-quadrant Elevator Integrated Controller

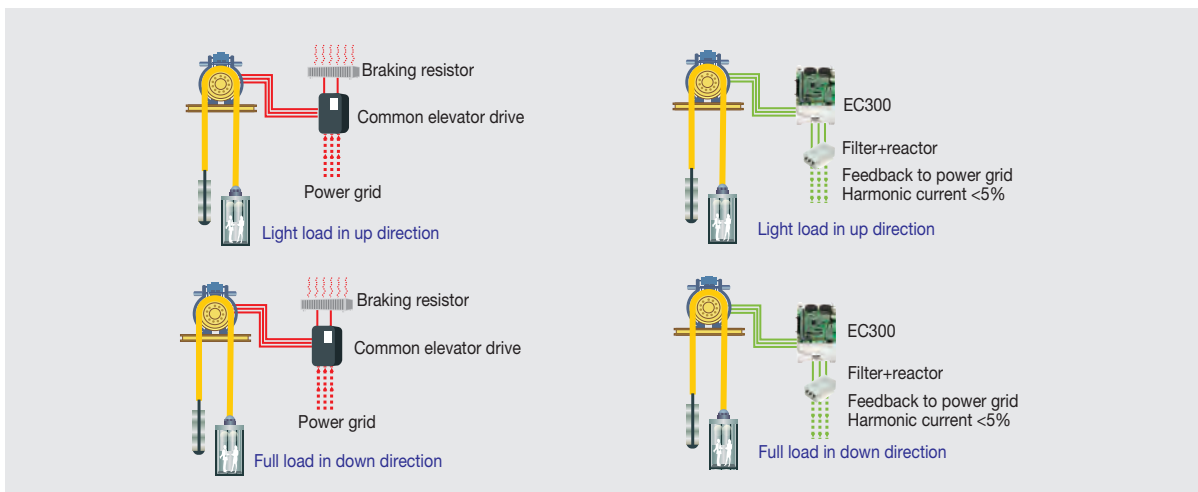
About the Product

The EC300 elevator integrated controller is a new-generation 4-quadrant intelligent control system featuring integration design that combines drive, control, energy feedback and network communication functions. Through its integrated 4-quadrant drive technology and optimized application for elevator potential energy conditions, it delivers comprehensive improvements in energy efficiency, operational safety and reliability, user-friendly operation, and cost-effectiveness.



Main Features

- Maintains all elevator functions identical to EC160A integrated controller
- Utilizing four-quadrant frequency control technology, the system regenerates elevator mechanical energy (potential & kinetic) into grid power (>80% efficiency, <5% harmonics, 30% energy savings) instead of dissipating through braking resistors, while meeting IEC61000-3-2 standards for Grade A energy certification
- Features TI dual-core DSP control chip with high-speed communication, rapid curve tracking response, precision control and enhanced EMI resistance
- Integrated data black box monitors and records real-time elevator operation status
- Automatic fault diagnosis - control chip identifies and logs transient faults in memory



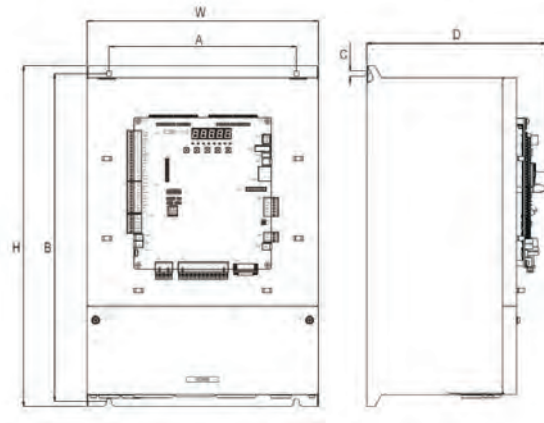
Configuration

Model	Input Voltage	Rated Power (kW)	Input Current (A)	Output Current (A)	Input Reactor Model
EC300-7R5-4(B)(NR)	AC 3PH 400V±15%	7.5	25	18.5	ERL20A10504
EC300-011-4(B)(NR)		11	32	27	ERL20A10504
EC300-015-4(B)(NR)		15	40	34	ERL35A06004
EC300-018-4(B)		18.5	47	37	ERL45A04704
EC300-022-4(B)		22	56	46	ERL45A04704
EC300-030-4(B)		30	70	62	ERL60A03504

Comprehensive Technical Parameters

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

Appearance and Installation Dimensions



Input voltage	Power(kW)	W(mm)	H(mm)	D(mm)	A(mm)	B(mm)	C (mm)	Mounting bolt
AC 3PH 400V $\pm$ 15%	7.5-15	223	347	181	150	334.5	Φ 7	M 6
	18.5-30	290	426	225	235	410	Φ 7	M 6

EC600 Elevator Integrated Control Panel

About the Product

EC600 integrates advanced variable frequency vector control with intelligent elevator management and networked communication systems, combining drive, control, and supervisory functions into a unified platform that delivers enhanced safety, operational reliability, and user convenience.



Main Features

- Advanced variable-frequency vector control enables direct landing, automatic multi-speed curve generation, and intelligent short-floor recognition
- Eco-friendly structural design features optimized material selection and component layout for improved aesthetics
- Silent operation maintains noise levels below 50dB for passenger comfort
- Standard STO (SIL3 certified) with synchronous motor electronic star-point locking ensures safety compliance
- Intelligent integration of drive, control and management systems provides secure, reliable and user-friendly operation
- Compact household-style design reduces cabinet volume by 32% and internal cabling by 45%
- Optimized interfaces and simplified design minimize traveling cables for easier maintenance
- Compatible with both AC asynchronous and permanent magnet synchronous motors
- Dedicated LED monitoring card allows hoistway installation of control panel
- Mobile APP enables quick debugging with Bluetooth adaptor

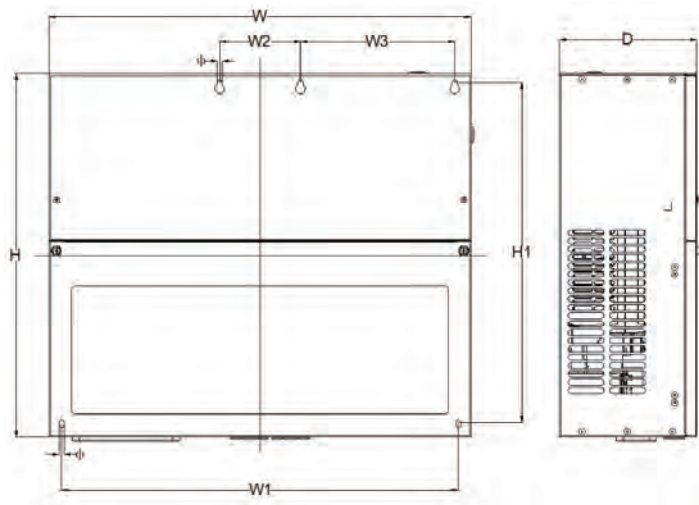
Comprehensive Technical Parameters

Item	Name	Description
Electrical specification	Input voltage range	AC 1PH 220V (-15%) ~ 240V (+10%) AC 3PH 380V(-15%) ~ 440V(+10%)
	Input frequency range	47~63Hz
	Output voltage range	0~rated input voltage
	Output frequency range	0~200Hz
Peripheral I/O specification	Low-voltage digital input	24 Channels, DC24V / 4.5~8mA
	Safety & door lock detection input	4 Channels, AC/DC110V
	Digital output	8 relays, AC250V/5A,DC30V/5A
	Communication interface	2 CAN bus, 1 RS485
	Encoder interface	Built-in encoder interfaces for NPN/push-pull outputs, and expandable support for sin/cos, Endat, UVW, and SSI absolute encoders.
Performance specification	Control mode	PG Vector Control
	Overload capacity	60s for 150%, 10s for 200%, 1s for 200% Closed-loop vector control: 0Hz/200%
	Starting Torque	0Hz/200%
	Speed control accuracy	±0.5% of the max speed
	Carrier frequency	1.0~16kHz

Configuration

Model	Input voltage	Rated power(kW)	Output current(A)	Braking resistor position	Braking resistor
EC600-MR2-7R5-4-B-S	AC 3PH 380V(-15%) ~ 440V (+10%)	7.5	18.5	External	2500W/65Ω
EC600-MR2-7R5-4-B-S-D2					
EC600-MR2-015-4-B-S		15	34		4500W/40Ω
EC600-MR2-015-4-B-S-D2					

Appearance and Installation Dimensions

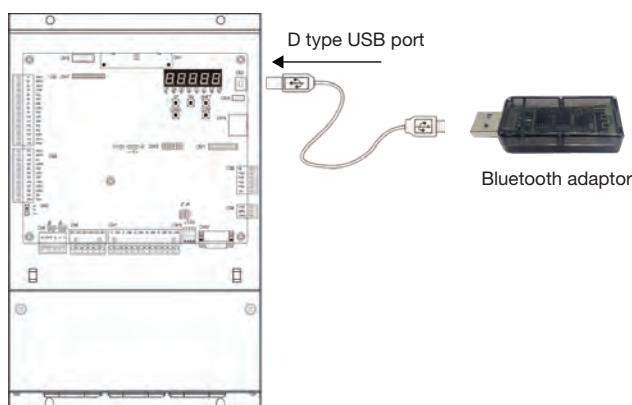


Model	Power (kW)	H (mm)	w (mm)	D (mm)	H1 (mm)	W1 (mm)	W2 (mm)	W3 (mm)	Diameter of mounting hole(mm)
EC600-MR2-7R5-4-B-S	7.5	480	560	182	450	527	107	205	Φ7
EC600-MR2-7R5-4-B-S-D2	7.5								
EC600-MR2-015-4-B-S	15								
EC600-MR2-015-4-B-S-D2	15								

Bluetooth & Phone APP

Product Features

- Convenient carrying of Bluetooth adaptor
- Fully functional and easy to use
- Quick operation of mobile phone touch screen
- Simple debugging of multiple sets of parameters
- Simple remote upgrade
- Online authorization for easy management
- Convenient fast and slow car debugging
- Support Android and iOS device



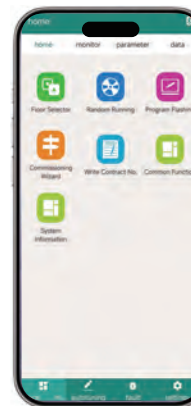
E-Debug Pro Android



E-Debug Pro iOS



Android



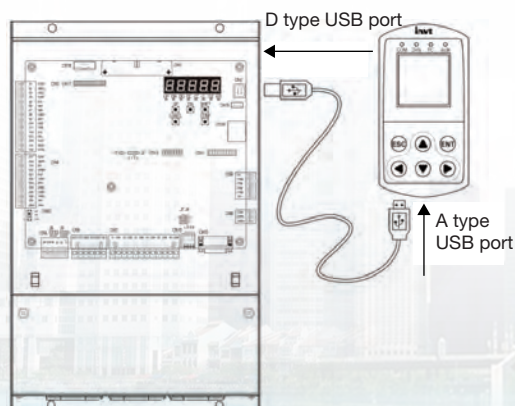
iOS

Phone APP

LCD Keypad

Product Features

- Support car debugging
- Support for manufacturer parameter settings
- Support for multiple languages
- Full text display on 2.5 inch screen
- Can download and upload all parameters
- Different password for access permission to the parameter like inquiry, debug and factory setting

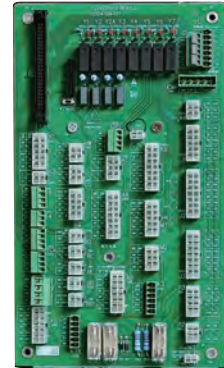


EC-KCB-H3 Plug-in Board

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00559	265*155	245*135	Φ5

Product Features

- The plug-in board comes with an error prevention function
- Separate design of high and low voltage circuits
- Assembled and modular design to improve production efficiency of control panel
- Independent detection for front and rear landing and car door lock short circuit
- Reduce engineering installation wiring and reduce wiring error rate
- Design of built-in short circuit and grounding protection fuse
- Accord with design requirements of EN81-20/50, such as creepage distance and electrical clearance



Installation position

Installed in the control panel and is compatible with the EC160B

EC-CTB-C Car Top Control Board

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00506	162*125	152*115	Φ4

Product Features

- CANBUS communication
- RS485 communication available, provides standard RS485 communication protocol for connecting with third-party multimedia displays and voice announcer
- Analog and digital weighing signal input available
- Up to 64 floors control
- Arrival bell output
- Double-door control
- Independent energy-saving control of fan and lighting
- Supports comfort ride optimization and leveling parameter debugging



Installation position

Installed in the control panel and is compatible with the EC160A

EC-CTB-K2 Car Top Control Board

EC-CTB-J4 Car Top Plug-in Board

Model	Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
EC-CTB-K2	11055-00571	200*100	190*90	Φ5
EC-CTB-J4	11055-00586	240*200	230*190	Φ5

Product Features

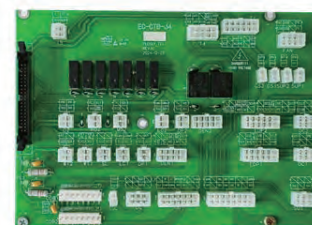
- CANBUS communication
- RS485 communication available, provides standard RS485 communication protocol for connecting with third-party multimedia displays and voice announcer
- Analog and digital weighing signal input available
- Up to 64 floors control
- Arrival bell output
- Double-door control
- Independent energy-saving control of fan and lighting
- Supports comfort ride optimization and leveling parameter debugging

Installation Position

Installed in the car top inspection box and compatible with EC160B



EC-CTB-K2



EC-CTB-J4

EC-CCB Car Operation Board

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00505	158*79	148*68	Φ4

Product Features

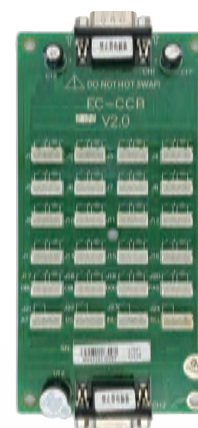
- One board for each elevator at least, the first CCB supports 16 floors, the cascading CCBs support 20 floors
- Attendant, independent, bypass or non-stop switch, attendant direction reverse, door open holding delay button input etc.

Application Range

used with car top control board

Installation Position

Car operation panel



EC-PI Parallel Control Board

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00552	130 * 120	123 * 113	Φ4

Product Features

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



Installation Position

Car top inspection box or control panel

LM11-K1-A Elevator Voice Station Reporting Device

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11023-00182	104*120*28	90*92	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

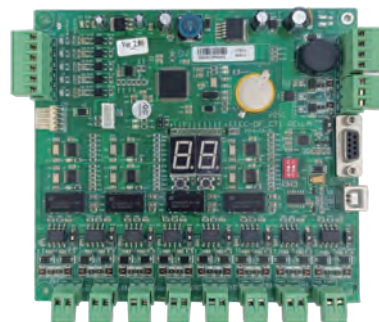
Car top or COP-Car operation panel

EC-DF Destination Dispatch System

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00588	166*150	148*68	Φ 4

Product Features

- Support group control up to 8 elevators
- Integrate various advanced dispatch technologies such as expert systems, fuzzy logic, neural networks, etc
- Automatic identification of up/down peak hours, zoned pick-up and drop off, improving elevator operation efficiency
- Real time statistics of passenger flow, achieving decentralized elevator dispatch, providing passengers a better elevator experience
- Flexible and versatile configuration, supporting special functions such as VIP and disabled people



Installation Position

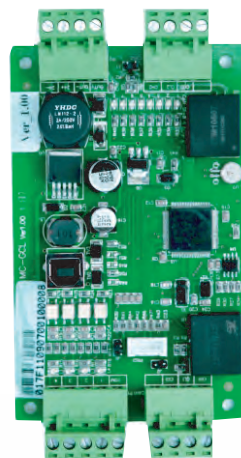
Control panel or independent DDS panel

GCB-01D Elevator Group Controller

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00519	122*76	111* 64	Φ 4

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

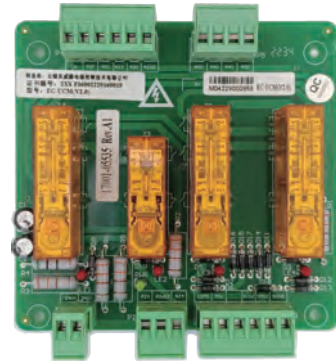
Elevator control panel

EC-UCM V2.0 UCMP Control Board

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00531	105*100	97 * 92	Φ 4

Product Features

- Adopting safety relays and high reliability design
- Supports the detection of unintended car movement for the elevator with synchronous or asynchronous motor
- Supports advance door open and releveling functions



Installation Position

Control panel

EC-UCM-A1 UCMP Control Board

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00554	155*78*27	141* 63.5	Φ 5

Product Features

- For applications with single-door synchronous motor elevator
- Elevator re-leveling function eliminates safety risks caused by uneven car/ landing door sill heights
- Advanced door opening function improves elevator operation efficiency
- Door contact short-circuit detection function prevents safety hazards from faulty contacts or manual bypassing
- UCMP detection and braking activation function - safely stops the car when unintended movement outside the landing zone is detected, protecting passenger safety



Installation Position

Control panel

EC-UCM-D1 UCMP Control Board

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00555	155*78*27	141* 63.5	Φ5

Product Features

- For applications with double-door or asynchronous motor elevator
- Elevator re-leveling function eliminates safety risks caused by uneven car/ landing door sill heights
- Advanced door opening function improves elevator operation efficiency
- Door contact short-circuit detection function prevents safety hazards from faulty contacts or manual bypassing
- UCMP detection and braking activation function - safely stops the car when unintended movement outside the landing zone is detected, protecting passenger safety

Installation Position

Control panel



DC-03ES-K1 Pit inspection Board

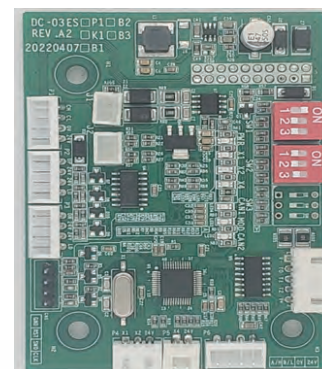
Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00516	87*63	62* 45	Φ4

Product Features

- Support CAN communication mode
- Inspection signal input, include up signal input, down signal input, water inflow signal input, inspection reset signal input, etc
- Equipped with status indicator lights for more intuitive display

Installation Position

Pit inspection box



DSC-CTB Series Car Top inspection box



Product Features

- CAN bus communication
- Wiring connection with connector instead of terminal, easy to install and maintain
- Use of EC-CTB-A/EC-CTB-C/EC-CTB-K2/EC-CTB-J4, simplify the wiring connection for the inspection box

INVT Series COP

Product Features

- Standard 6.4-inch segment LCD display with black background and white characters (optional dot matrix display, segment LCD display with white characters on blue background, TFT display)
- Split structure with full hairline stainless steel panel (optional colored, mirror finish, etc.)
- Stainless steel round buttons with red light transmission (optional blue light transmission, with Braille, etc.)
- Can be equipped with IC card, voice announcer, etc.

Dimensions

Floor	Panel (L×W mm)	Bottom Box (L×W×D mm)
2-12	1200*180*2	1180*157*60
13-20	1380*180*2	1360*157*60
21-28	1560*180*2	1540*157*60
29-36	1560*210*2	1540*187*60
Customized	Customized	Customized



INVT-420

Product Features

- Standard 6.4-inch segment LCD display with black background and white characters (optional dot matrix display, segment LCD display with white characters on blue background, TFT display)
- Split structure with black acrylic light-transmitting plate + 304 hairline stainless steel panel (optional titanium gold, mirror finish, etc.)
- Stainless steel square buttons with white light transmission (optional round buttons, backlight color, Braille, etc.)
- Can be equipped with IC card, voice announcer, etc.

Dimensions

Floor	Panel (L×W mm)	Bottom Box (L×W×D mm)
2-16	1390*180*13	1360*157*60
17-33	1380*190*13	1360*177*70
Customized	Customized	Customized

*More models are available, feel free to contact us.



INVT-220

C Series LOP



LOP-C210



LOP-C220



LOP-C310



LOP-C320

Dimension

Type	Appearance(L×W×D mm)
C210	310*90*12
C220	337*92*15
C310	380*100*15
C320	330*98*13

Installation

Wall-mounted

DSC160A/DSC160B Series Control Panel



Product Features

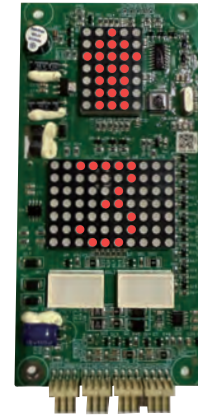
- DSC160A: CAN bus communication, terminal wiring installation
- DSC160B: RS485 and CAN bus communication, installation of plug-in board + flat cable
- Support simplex, duplex and group control
- Maximum speed 6m/s, maximum floor 64 floors
- The door controller can be controlled by the mainboard or car top board
- Conform to EN81 Standard
- Adopting EC series elevator integrated controller(integration of drive and control)

DC-03B/L-A2 Dot-matrix LED Display

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00537	144*70*12	134* 56	Φ 4

Product Features

- 32-bit processor, CANbus communication
- Red round dot-matrix LED, high brightness, scrolling display
- 10mm ultra-thin design, suitable for the wall-mounted landing operation panel(LOP)
- Elevator status displaying like overload, full load, fault and maintenance
- All ASCII characters can be displayed
- Hall call, lock and fire service function

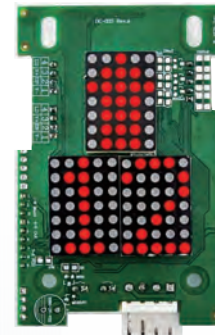


DC-03S(0) Dot-matrix LED Display

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00471	85*50*14.1	72.44*42	Φ 4

Product Features

- CANbus communication
- Red round dot-matrix LED, scrolling display
- Suitable for the wall-mounted landing operation panel(LOP)
- Elevator status displaying like overload, full load, fault and maintenance
- All ASCII characters can be displayed
- Hall call, lock and fire service function

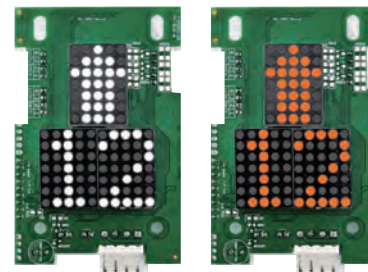


DC-03S-W/DC-03S-O Dot-matrix LED Display

Model	Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
DC-03S-W	11055-00580	93*60*10	72.6*42	Φ4
DC-03S-O	11055-00581	93*60*10	72.6*42	Φ4

Product Features

- CANbus communication
- White/orange round dot-matrix LED optional, scrolling display
- Ultra-thin design, suitable for the wall-mounted landing operation panel(LOP)
- Elevator status displaying like overload, full load, fault and maintenance
- All ASCII characters can be displayed
- Hall call, lock and fire service function
- Support up/down arrival lantern



DC-03S-W

DC-03S-O

DC-03I Dot-matrix LED Display

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00525	144*70*12.5	134*56	Φ4

Product Features

- 32-bit processor, CANbus communication
- White round dot-matrix LED, scrolling display
- Ultra-thin design, suitable for the wall-mounted landing operation panel(LOP)
- Elevator status displaying like overload, full load, fault and maintenance
- All ASCII characters can be displayed
- Hall call, lock and fire service function

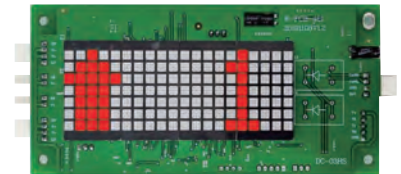


DC-03HS-A Dot-matrix LED Display

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00500	144*70*11.6	134* 56	Φ 4

Product Features

- 32-bit processor, CANbus communication
- Red and white square dot-matrix LED optional, scrolling display
- Arrival lantern or chime output
- All ASCII characters can be displayed
- Hall call, lock and re service function
- Elevator status displaying like overload, full load, fault and maintenance



DC-09A Segment LED Display

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00529	129*118*14	109*88	Φ 4

Product Features

- 32-bit processor, CANbus communication
- 6.4 inches, white segment LED on black background
- Common ASCII characters can be displayed
- Running display like floor number, direction arrow
- Elevator status displaying like overload, full load, fault and maintenance

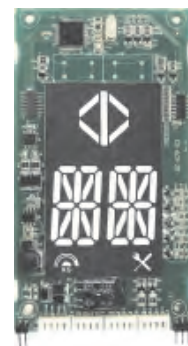


DC-07P-D3 Segment LED Display

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00499	131*72*6.5	118*60	Φ4

Product Features

- 32-bit processor, CANbus communication
- White segment LED on black background
- 6.5mm ultra-thin design, suitable for the wall-mounted landing operation panel(LOP)
- All ASCII characters can be displayed
- Hall call, lock and fire service function
- Elevator status displaying like overload, full load, fault and maintenance



DC-05H Series Segment LCD

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)
11055-00311	141*94*19	125*77	Φ4

Product Features

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



DC-05H

DC-07K-B3 Segment LCD

Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)	LCD size (inch)
11055-00482	141*79.5*14.5	118*60	Φ 4	4.3

Product Features

- 32-bit processor, CANbus communication
- White segment LCD on blue background
- Common ASCII characters can be displayed
- Hall call, lock and fire service function
- Elevator status displaying like overload, full load, fault and maintenance

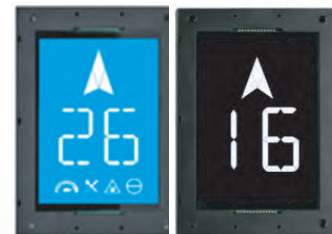


DC-07D/DC-07S Segment LCD

Model	Material code	Appearance dimension (mm)	Installation dimension (mm)	Hole size (mm)	LCD size (inch)
DC-07D	11055-00587	178*130*18	160*105	Φ 4	6.4
DC-07S	11055-00329	178*130*18	160*105	Φ 4	6.4

Product Features

- 32-bit processor, RS485 communication
- 6.4-inch, white segment LCD on blue (07D) / black (07S) background
- Common ASCII characters can be displayed
- Elevator status displaying like overload, full load, fault and maintenance



DC-07D

DC-07S

LM21 Series Multimedia Picture Machine



Model	LM21-043	LM21-070	LM21-104	LM21-121
Size of LCD(inch)	4.3	7	10.4	12.1
LCD Resolution(Pixels)	640*480	800*480	640*480	800*600

Product Features

- Display the floor, running direction, overload, fire alarm, full load, fault and inspection information
- Floor reporting and background music playing. The display will be off automatically if standby over 10 minutes
- Display the date, clock, LOGO of customers and words;
- Color pictures used for corporate identify and commercial advertising;
- The user can use Micro SD to update the display images and audio files, change the display interfaces and modes. Horizontal and vertical installation are available.

Model	Material code	W (mm)	H (mm)	D (mm)	W1 (mm)	H1 (mm)	Installation hole (d:mm)
LM31-104-CT	11055-00561	156	253.2	29	120	200	Φ7

LM31-104-C Touchscreen Car Operation Panel

About the Product

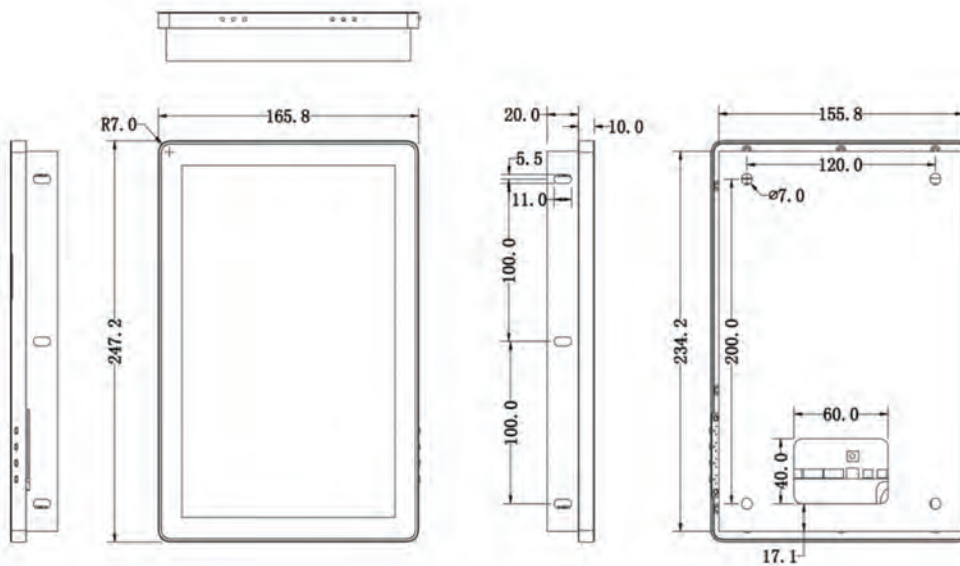
Elevator touch screen control box, with a screen resolution of 1280*800 and a screen size of 10.1 inches, supports CAN communication mode

Product Features

- Car call registration, elevator status display
- Basic information display such as weather and time
- Music and picture player functions
- Fan and lighting control
- Voice reassurance function
- Automatic demonstration mode
- Replaceable LOGO and welcome message
- Phone call function and contact settings
- RGB ambient light control
- Elevator status display for overload, fault, fire, etc.



Appearance and Installation Dimensions



Model	Material code	W (mm)	H (mm)	D (mm)	W1 (mm)	H1 (mm)	Installation hole (d:mm)
LM31-104-C	11055-00565	165.8	247.2	30	120	200	Φ7

*More models are available, feel free to contact us.

TBox Industrial Internet Data Transmission Terminal

About the Product

The Invt TBox series industrial Internet data transmission terminal is an intelligent 4G wireless data terminal for the Internet of Things, which is convenient.

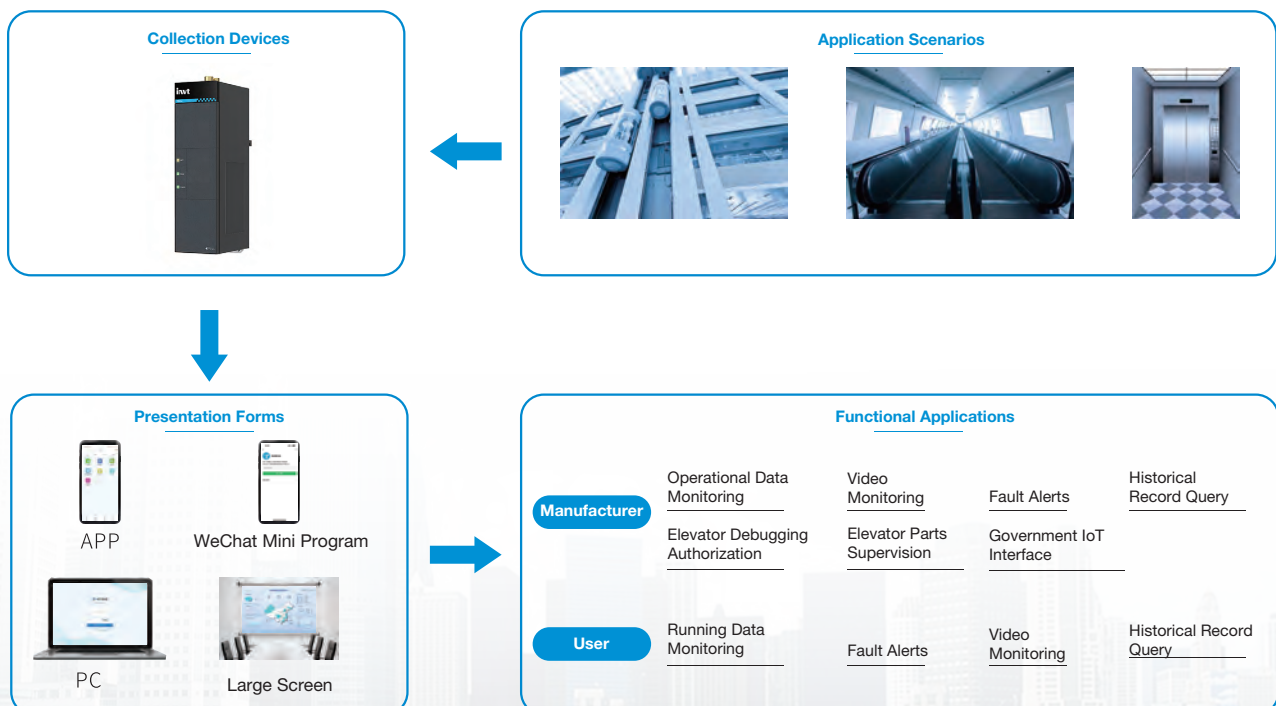
It conveniently realizes remote data collection, remote program upload and download, and remote debugging, and provides users with services through public operator networks.

The long-distance data transmission function of the line has stability and reliability that meet the requirements of industrial application scenarios.



Product Features

- The intelligent data terminal can enter the data transmission state immediately upon power-on
- Standard guide rail installation
- Standard RS485 interface, which can be directly connected to serial port devices for data acquisition
- Standard RJ45 network port. The WAN/LAN ports can be switched through a dip switch. The LAN port can be directly connected to the network port device for data collection, and the WAN port can be accessed to the upper-level network
- Real-time monitoring of the operating status enables maintenance personnel to immediately understand the health condition of the elevator and take targeted measures



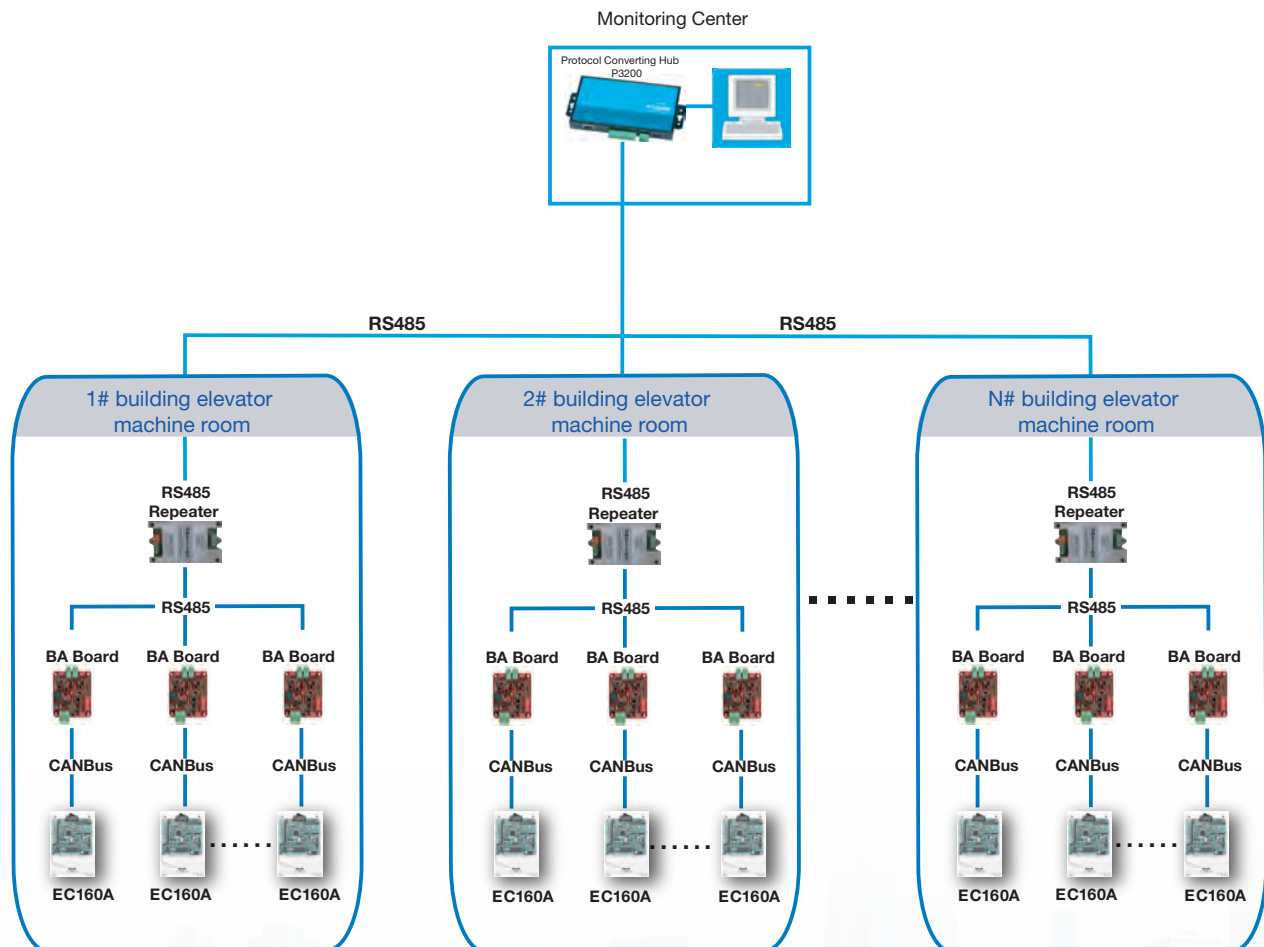
Local Monitoring System

About the Product

The local monitoring system is a local 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



EC20 Series Elevator Door Controller

About the Product

EC20 Series Elevator Door Controller adopts 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**

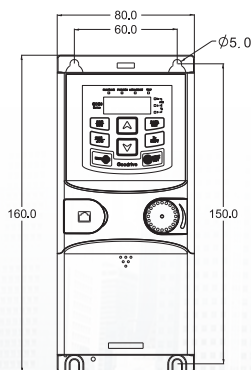
The fan can be assembled and disassembled separately, easy to maintain



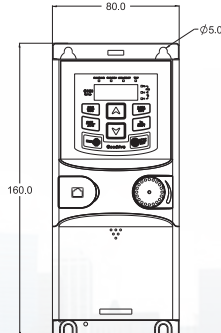
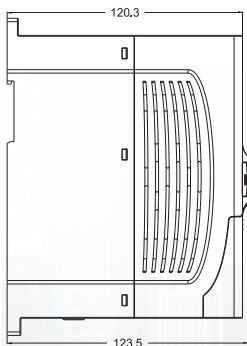
Specification

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

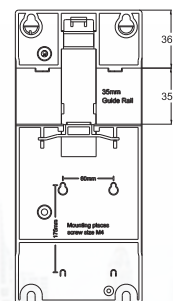
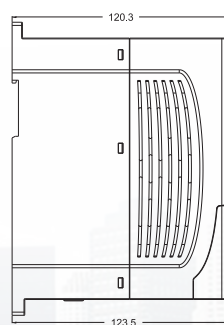
Dimension



Wall mounting



Rail mounting



EC30 Series Elevator Door Controller

About the Product

EC30 elevator door controller is a dedicated for elevator door systems. It's designed with smaller appearance structure, lightweight and compact size, ultra-thin plastic shell so that it can be easier to install. It also has a wide range of applications and meets the needs of various elevator door control.



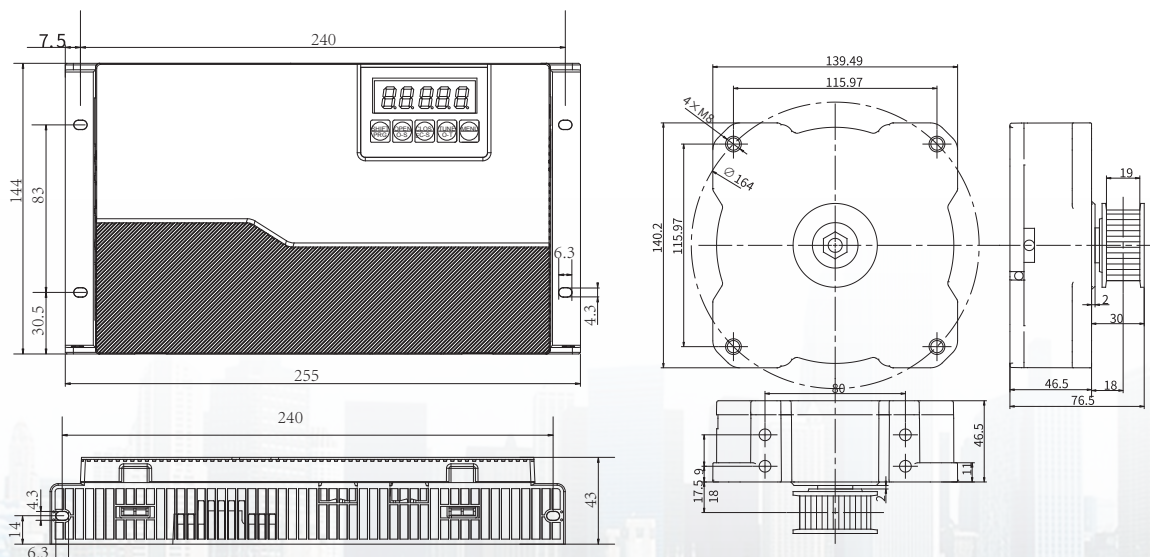
Technical Features

- Support induction and PM motors
- Support incremental and absolute encoders
- Support software upgrade and debug by phone app
- Optional CAN/485 communication function, supports to protocol customization
- Intelligent handle while Full pulse mode and pulse loss
- One-button debugging, obstacles detection, auto demonstration, and self-adaptation to working conditions
- Auto speed curve generation without parameter adjustment

Specification

Model	Rated Power(W)	Rated input current (A)	Rated output current (A)	Gross weight (Kg)	Dimension (mm)
EC30- 0R2-S2	200	2	1.3	1.1	255*144*43
DM30-1.1A-01	50	1.1	-	-	139.49*140.2*76.5

Dimension



ARD (Automatic Rescue Device)

5.5~15kW (AC380V±10%)

To prevent passengers from being trapped in elevators during power outages—avoiding both physical risks and psychological distress—INVT provides an efficient and safe solution for emergency elevator rescue. In the event of a power failure, INVT ARD automatically activates within a preset time, supplying backup power to the elevator control system. This enables the elevator car to move smoothly to the nearest landing, open the doors, and safely release passengers.



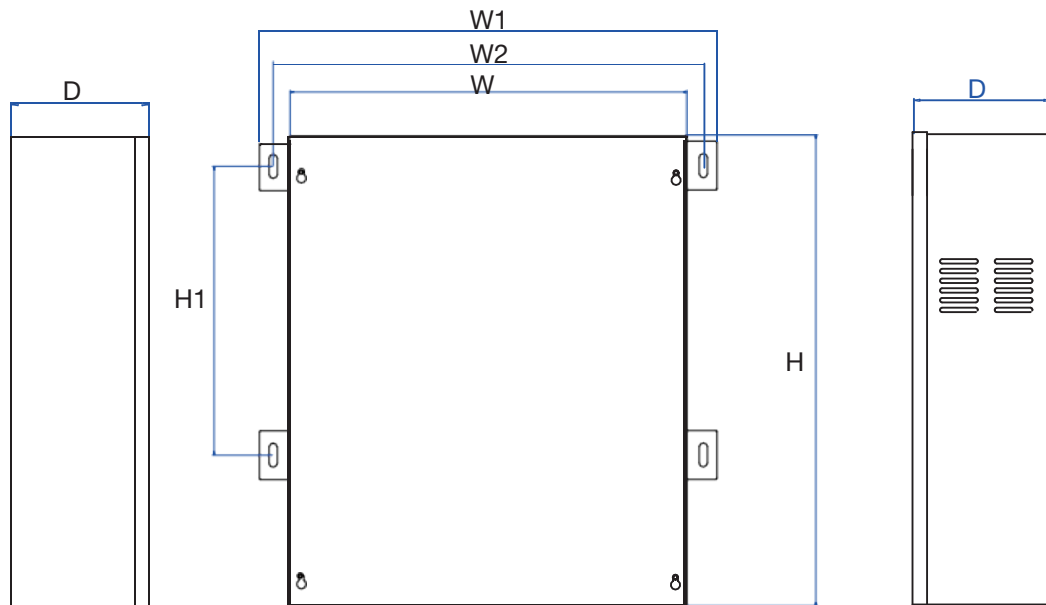
Features

- The intelligent and professional rescue function design is compatible with any elevator control system
- During emergencies, the smart microprocessor instantly checks the power supply system and performs safe leveling
- Except for electrolytic capacitors, the service life of the equipment shall be no less than 10 years

Application

During a power outage, INVT ARD automatically provides backup power to the elevator control system, enabling smooth movement to the nearest landing for safe passenger evacuation.

Appearance and Installation Dimensions



Model	H (mm)	W (mm)	D (mm)	H1 (mm)	W1 (mm)	W2 (mm)	Diameter of mounting hole(mm)
5.5~7.5kW	407	327	137	238	377	354	Φ5
11~15kW	407	327	120	192	378	355	Φ5

Specification

Model	ARD-3PG			
Load (kW)	5.5	7.5	11	15
AC input range	AC 380V ± 10%			
DC voltage	36VDC/48VDC			
Battery performance	1. Low resistance and small internal resistance, capable of supplying large currents to the load. 2. Metal container, sturdy and durable, enhancing memory function and preventing overdischarge. 3. Can be recharged 500 times, suitable for use in environments with temperatures ranging from -10°C to 60°C, and has a service life of over 3 years..			
Dimensions (Length×Width×Depth)	407*327*137mm			
Protection	Output overload and short-circuit protection, DC output low/high protection.			

HTC Series Tower Online UPS

1-3kVA (220V/230V/240V)

HTC series is an online double-conversion UPS with fully digital control technology. This fully upgraded new generation of UPS not only has an ultra-high input and output power factor, but also increases the efficiency on the basis of the original 5%. HTC11 with adjustable 12A charger is a perfect choice for PC and other sensitive devices request longer backup time.



Features

- Wide range of input voltage while input PF>0.99
- Output PF of 1, upgraded overload capability
- Full protection of over-voltage and short-circuit
- Multiple communication interface: RS232, RS485, AS400, dry contact, USB and SNMP card
- LCD/LED display, monitoring all the operation status
- Auto fan speed adjustment
- External environment and battery temperature sensor
- 1-12A adjustable charger with more flexibility
- Support Lithium battery

Application

IDC (Internet Data Center), network, servers and workstations, control system, communication system, office, PC etc.

Specification

Model			HT1101CL		HT1101CS		HT1102CL		HT1102CS		HT1103CL		HT1103CS	
System Capacity			1kVA				2kVA				3kVA			
Input	Phase		Single Phase in, Single Phase out											
	Input Volatge Range		110VAC~300VAC											
			176VAC~276VAC for 100% load; 276VAC~300VAC for 50% load; 110VAC~176VAC load decrease linearly from 100%~50%											
	Input Power Factor		≥0.99											
	Input Frequency		50/60±5Hz (Default), ±1Hz/±3Hz/±10Hz (settable)											
	Input Frequency Range		40Hz~70Hz											
	Frequency Adaptable		Settable											
Output	OutputVoltage		200/208/220/230/240VAC											
	Voltage Regulation		± 1 %											
	Rate Frequency		50/60Hz											
	Frequency Range		±0.1%											
	Output THDu		≤2% THD, linear load; ≤ 5% THD, non-linear load											
	Output PF		1(0.9 for 200VACfor 200VAC/208VAC)											
	Crest Factor		3:1											
	Dynamic Response		≤5% (0% - 100% -0%)											
	Dynamic Recovery		≤40ms (0% - 100% -0%)											
	Overload Capability	Inverter	102%~110% for 30mins; 110%~125% for 10mins; 125%~150% for 30s											
		Battery	102%~110% for 1min; 110%~125% for 10s; 125%~150% for 5s											
Bypass		<130%: long term operation; <150% for 10mins; <180% for 5s												
Battery	DC Voltage		36VDC				72VDC				96VDC			
	Number/Type		External	12V, 7Ah*3		External	12V, 7Ah*6		External	12V, 7Ah*6				
	Charging Voltage		Settable											
	Max Charging Current		1-12A	1A		1-12A	1A		1-12A	1A				
	Battery Cold Start		Standard											
System	Efficiency	Normal Mode	94.5%@100% load				95.5%@100% load				95.5%@100% load			
		ECO Mode	96%				97%				97%			
		Battery Mode	89.5%@100% load				91.5%@100% load				91.5%@100% load			
	Noise (1m away)		<43dB@<60%load <47dB@>60%load				<50dB@<60%load <55dB@>60%load				<50dB@<60%load <55dB@>60%load			
	Display		LED+LCD											
	Interface		RS232, input socket (IEC C14 for 1K, C20 for 2-3K) output socket (2 National standard sockets for 1K, 4 National standard sockets for 2K 3 National standard sockets+1 20A connecting terminal for 3K)											
	Optional		RS485, USB, AS400 Dry Contact, SNMP Card, EPO External Battery Temperature, RJ45 Surge Protection, Dust net											
Physical	W*D*H(mm)		144*354*224	144*354*224		144*410*223	190*405*330		144*410*223	190*405*330				
	W*D*H(mm)(Package size)		240*448*320	240*448*320		240*510*320	285*520*406		240*510*320	285*520*406				
	Net Weight (KG)		4.3	10.3		5.8	21.1		6.2	25.5				
	Gross Weight (kg)		5.6	11.6		7.1	23		7.5	27.5				

HRC11 Series Tower Online UPS

1-3kVA (220V/230V/240V)

HRC series, range from 1kVA to 10kVA, is double conversion online rack UPS with fully digital control technology. This upgraded new generation of UPS is compatible with lithium batteries, and charging current can be increased up to 12A. With its compact design of high density (Output PF =1) in 2U height, HRC series makes it deal choice for computers, telecommunication equipment and other sensitive device.



Features

- Wide range of input voltage while input PF>0.99
- Output PF of 1, upgraded overload capability
- 19" standard cabinet and battery cabinet
- Multiple communication interface: RS232, RS485, AS400, dry contact, USB and SNMP card
- Auto fan speed adjustment
- LCD/LED display, monitoring all the operation status
- External environment and battery temperature sensor
- 1-12A adjustable charger with more flexibility
- Intelligent charging management, effectively improving the life time of battery
- Support Lithium battery

Application

IDC (Internet Data Center), network, servers and workstations, control system, communication system, office, PC etc.

Specification

Model			HR1101CL	HR1101CS	HR1102CL	HR1102CS	HR1103CL	HR1103CS
System Capacity			1kVA		2kVA		3kVA	
Input	Phase		Single Phase in, Single Phase out					
	Input Volatge Range		110VAC~300VAC					
			176VAC~276VAC for 100% load; 276VAC~300VAC for 50% load; 110VAC~176VAC load decrease linearly from 100%~50%					
	Input Power Factor		≥0.99					
	Input Frequency		50/60±5Hz (Default), ±1Hz/±3Hz/±10Hz (settable)					
	Input Frequency Range		40Hz~70Hz					
	Frequency Adaptable		Settable					
Output	OutputVoltage		200/208/220/230/240VAC					
	Voltage Regulation		± 1 %					
	Rate Frequency		50/60Hz					
	Frequency Range		±0.1%					
	Output THDu		≤2% THD, linear load; ≤ 5% THD, non-linear load					
	Output PF		1(0.9 for 200VACfor 200VAC/208VAC)					0.9
	Crest Factor		3:1					
	Dynamic Response		≤5% (0% - 100% -0%)					
	Dynamic Recovery		≤40ms (0% - 100% -0%)					
	Overload Capability	Inverter	102%~110% for 30mins; 110%~125% for 10mins; 125%~150% for 30s					
		Battery	102%~110% for 1min; 110%~125% for 10s; 125%~150% for 5s					
Bypass		<130%: long term operation; <150% for 10mins; <180% for 5s						
Battery	DC Voltage		36V/48Vdc	36Vdc	72V/96Vdc	72Vdc	96Vdc	72Vdc
	Number/Type		External	12V, 7Ah*3	External	12V, 7Ah*6	External	12V, 7Ah*6
	Charging Voltage		Settable					
	Max Charging Current		1-12A	1A	1-12A	1A	1-12A	1A
	Battery Cold Start		Standard					
System	Efficiency	Normal Mode	94.5%@100% load		95.5%@100% load		95.5%@100% load	
		ECO Mode	98%		98%		98%	
		Battery Mode	89.5%@100% load		91.5%@100% load		91.5%@100% load	
	Noise (1m away)		<43dB@<60%load <47dB@>60%load		<50dB@<60%load <55dB@>60%load		<50dB@<60%load <55dB@>60%load	
	Display		LED+LCD					
	Interface		RS232, input socket (IEC C14 for 1K, C20 for 2-3K) output socket (4 National standard sockets)					
	Optional		RS485, USB, AS400 Dry Contact, SNMP Card, EPO External Battery Temperature, RJ45 Surge Protection, Dust net					
Physical	W*D*H(mm)		440*377*86	440*427*86	440*427*86	440*577*86	440*427*86	440*577*86
	Net weight(KG)		5.5	12.5	7	21.9	7.3	24.9

Brake Power Supply EC-PWR-A1

About the Product

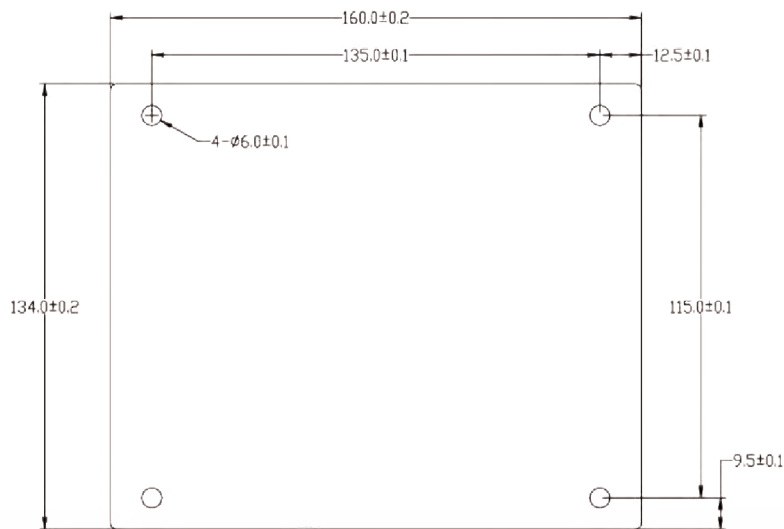
EC-PWR-A1 is a dual-channel AC/DC power supply dedicated for elevator, it features a compact design, high voltage stability, and reliable performance, also includes short-circuit and overcurrent protection, with excellent EMI compliance and adherence to safety standards.



Technical Features

- Customized for the elevator industry to better meet on-site application requirements
- Engineered for extreme conditions: Operates reliably at -20°C~70°C | 10%~95% humidity | <5000m altitude
- Strong anti-vibration and anti-shock capabilities
- Wide voltage input range, 176~264Vac
- Dynamic power margin with powerful output characteristic curve, reliable and durable

Appearance and Installation Dimensions

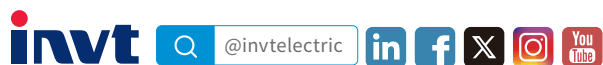


Model	W (mm)	H (mm)	W1 (mm)	H1 (mm)	Diameter of mounting hole(mm)
EC-PWR-A1	160	134	135	115	Φ6

Configuration

	Project		Parameter	Unit	Remarks
Input characteristics	AC Input Voltage Range		176-264	Vac	Can start and work normally
	Rated Voltage		200~240	Vac	Safety voltage range
	Input Frequency		50/60	Hz	Range 47-63Hz
	Efficiency		≥88	%	Vin=220Vac, rated load
	Input Current		≤15	A	Vin=176Vac, rated load
	Leakage Current		≤1	mA	264Vac input
Output characteristics	Rated output voltage	V1(110V)	V2(24V)	Vdc	110V adjustable voltage (60/80/90V). When adjusting voltage: 60V/≥0.4A 80V/≥0.54A 90V/≥0.6A The output voltage takes more than 3 seconds to switch to the set value after adjustment. When the output current is <0.1A, the output voltage reverts to 110V.
	Output voltage range	106~114	23.5~24.5		
	Output current range	0~5	0~6	A	
	Output accuracy	±4	±2	%	
	Line regulation	±2	±1	%	
	Load regulation	±2		%	
	Maximum output power	694		W	
	Output ripple noise	≤2000	≤200	mV	
	In-rush overshoot (at startup)	≤5%		Vo	
	V1/5A hold-up time	14~18		min	
Protection characteristics	Output current limiting protection	V1	5.5~11	A	V1: intermittent output mode. Can self-recover after fault clearance. V2: Requires cutting off AC power and restarting to restore output.
		V2	6.6~10		
	V1 output overvoltage protection	/		Vdc	Circuit open-loop, automatic lockout.
	V2 output overvoltage protection	27~30		Vdc	Constant voltage mode
	Output short-circuit protection	Yes		/	V1: Intermittent output mode. Can self-recover after fault clearance. V2: Requires cutting off AC power and restarting to restore output.
	Input undervoltage protection	176~140		Vac	V1, V2: Output off
	Input overvoltage protection	264~290		Vac	V1, V2: Output off, disconnect L1 output. No damage when input is 380Vac.
	Over-temperature protection	132		°C	V1: Over-temperature protection intermittent mode. Can self-recover after fault clearance.

Your trusted industry automation solution provider



E-mail: overseas@invt.com.cn

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 - Elevator Intelligent Control System
 - Rail Transit Traction System
- Electric Power:
- UPS
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 - Solar Inverter
 - New Energy Vehicle Powertrain System
 - New Energy Vehicle Charging System
 - New Energy Vehicle Motor

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