

No.	Function Name	Description	SMART100	MASTER
1	Full Collective Selection	After comprehensive analysis and judgment of up/down hall calls, car calls and various signals, the elevator will automatically prioritize and answer signals consistent with the running direction in sequence.	•	•
2	Automatic Return to Base Floor	For a single elevator, the base floor can be set according to actual building needs. If no calls are registered within a set time, the car automatically returns to the base floor, closes the door and stands by. The base floor is usually set at the floor with heavy traffic or the lobby.	•	•
3	Car Switch-off	When the key switch at a specified floor is activated, the elevator will, after answering all calls, return to the specified floor, open the door, then after reclosing, cut off car lighting and ventilation, and light up the hall car switch-off indicator.	•	•
4	Emergency Fire Return to Base Floor	In case of fire, upon receiving the fire signal, the system cancels all calls and drives the elevator directly back to the fire floor, opens the door to evacuate passengers. After successful fire return, the control system sends a success signal to the fire control center, and displays fire status reminder.	•	•
5	Light Curtain Protection	Uses infrared beams to detect passengers entering/exiting, providing door closing safety. When something blocks the beams between the doors, the elevator reopens. Light curtain protection is inactive during fire operation.	•	•
6	Car Top Inspection	An inspection box on the car top allows safe and quick maintenance; machine room inspection switch is disabled.	•	•
7	Overload Protection	When car load exceeds rated capacity, overload alarm sounds, display shows overload, doors remain open, elevator cannot start.	•	•
8	Full Load Bypass	When car load reaches preset full load value, elevator enters full load bypass mode, no longer responds to hall calls and only answers car calls directly to selected floors.	•	•
9	Independent Service	To meet special needs, independent service mode can be activated. In this mode, elevator does not answer hall calls and doors and movement are manually controlled.	•	•
10	Separate Door Open Time Control for Hall and Car Calls	Based on statistics, door open waiting time from hall calls is longer than from car calls. This function independently adjusts door hold time when responding to hall calls vs. car calls to improve overall efficiency.	•	•

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11	Open/Close Door Buttons	Buttons in car to open/close doors. When elevator idle, pressing open button opens doors; pressing close button cancels door open delay and closes immediately, improving efficiency.	•	•
12	Open/Close Button Illumination	When pressing open/close button, the button lights up to indicate successful response.	•	•
13	Emergency Car Lighting	Emergency lighting installed in car, activated during power failure.	•	•
14	Car Alarm Bell	For passengers to alert outside in special situations by pressing alarm button in car.	•	•
15	Fire Status Reminder Display in Car	When entering fire mode, display shows warning message and buzzer sounds to remind passengers to exit and not use elevator.	•	•
16	Door Close Delay Protection	If door open time exceeds preset time due to held hall button or other factors, elevator forces door close to answer other calls. If forced close fails three times, elevator stops and opens doors, cancels all calls. When door closes normally, elevator resumes normal operation.	•	•
17	Terminal Floor Protection	When elevator approaches terminal floor and speed does not reduce to preset value, system forces deceleration to ensure safe operation.	•	•
18	Car Arrival Chime	When elevator arrives at a floor, operation panel emits a clear chime to indicate arrival.	•	•
19	Opposite Direction Call Rejection	During up/down travel, calls opposite to current direction cannot be registered or are canceled when reaching the farthest floor.	•	•
20	Load Weighing-Free Torque Compensation	At start, without load weighing device, system automatically compensates torque based on current car load for good starting comfort.	•	•

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21	Reopen Door by Hall Call at Same Floor	If car is stopped at a floor with no other calls, pressing the hall call button at that floor will reopen the door.	•	•
22	Brake Feedback Monitoring	Monitors brake contactor signal throughout operation; if actual state differs from command, elevator stops.	•	•
23	Speed Feedback Monitoring	System compares encoder feedback speed with set speed; if deviation exceeds allowable range, system enters protection and elevator stops.	•	•
24	Contactor Feedback Monitoring	System monitors feedback of main contactor and brake contactor; if abnormal, system enters protection and elevator stops.	•	•
25	Shaft Position Self-Learning	Self-learns and stores shaft position signals for direct landing during normal operation.	•	•
26	Automatic Control of Car Fan and Lighting	If no operation within preset time after door close, elevator enters energy-saving mode, turns off car lighting and fan. They restart upon receiving a call.	•	•
27	Emergency Electric Operation in Machine Room	Control panel in machine room or emergency operation box has emergency electric operation device for rescue in emergency.	•	•
28	Wrong Call Cancellation	If passenger presses wrong button, they can cancel by pressing the same button twice quickly after registration.	•	•
29	Cancel Door Close Delay	In automatic mode, during door open delay, pressing close button immediately closes doors.	•	•
30	Leveling to Nearest Floor	During reset rescue, if elevator stops at non-leveling area due to power failure, fault, or inspection, upon power recovery or reset, if safety conditions met, elevator slowly moves to nearest floor to re-level. If reset rescue not enabled, elevator goes to terminal to find position. After positioning, floor indicator shows floor and normal operation resumes.	•	•

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31	Automatic Parking	In group control, when all elevators are idle, they automatically park at different floors to improve response time.	•	•
32	Hall and Car Direction Indicators	Arrow lights on car panel and hall call panel show running direction.	•	•
33	Hall Position Indicator	On each floor hall call panel, displays car position for passenger convenience.	•	•
34	Car Position Indicator	On car operation panel, displays current floor for passenger convenience.	•	•
35	Door Open Protection	If door cannot fully open due to mechanical jam beyond preset time, all calls are canceled and elevator moves to adjacent floor to open doors and release passengers.	•	•
36	Door Close Protection	If door cannot fully close due to mechanical jam beyond preset time, elevator repeats closing three times; if still not closed, it enters protection. When door closes normally, normal operation resumes.	•	•
37	Drive Overheat Protection	If motor temperature exceeds preset value due to high room temperature or operation, elevator enters protection, stops at nearest floor, opens doors to evacuate passengers, turns off car lighting and fan. When temperature normal, elevator resumes.	•	•
38	Static Positioning	After power failure, parameter change, or fault, driver performs automatic magnetic pole capture before next run without manual intervention.	•	•
39	Lighting and Fan Energy-Saving Mode	If no car or hall calls within set time, car lighting and fan are automatically turned off.	•	•
40	Current Ramp-Down	In PMSM applications, after deceleration stop, motor holding current is ramped down to avoid abnormal noise.	•	•

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41	Hall Button Stuck Detection	System detects stuck hall buttons and removes the stuck call to prevent elevator from being unable to close doors. Can be enabled/disabled as needed.	•	•
42	Driver Friendly Reminder	In attendant mode, when a hall call is registered, buzzer in car sounds and corresponding car button flashes to remind driver.	•	•
43	Brake Torque Test	System can automatically or manually test brake torque (for synchronous machines).	•	•
44	UCMP	Unintended Car Movement Protection: Protection against unintended car movement with doors open in unlocking zone.	•	•
45	Door Lock Short-Circuit Detection	System automatically detects door lock short circuit and reports fault; can set number of door openings after detection.	•	•
46	Test Run	Includes fatigue test for new elevators, ignoring hall calls, disabling door open/close, etc.; elevator runs automatically without calls.	•	•
47	Timed Floor Blocking	Blocks specified floors during set time periods (supports two periods per day).	•	•
48	Reopen Door by Hall Call at Same Floor	When elevator is at a floor, pressing the hall call button in the same direction as the current direction will reopen the door.	•	•
49	Leveling Fine Adjustment	Adjustable parameters for fine-tuning leveling accuracy, supports floor-by-floor adjustment.	•	•
50	Fault History Log	System stores fault records including time and floor of occurrence.	•	•

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51	Balance Coefficient Self-Monitoring	Via service tool, automatic measurement of balance coefficient under no-load condition.	•	•
52	Door Bypass Device	For maintenance, bypass device can short-circuit hall door lock or car door lock; after bypass, elevator can only run in inspection or emergency electric mode with audible/visual alarm.	•	•
53	Brake Detection Maskable in Inspection	In inspection mode, brake detection can be temporarily masked for maintenance or rescue.	•	•
54	Onboard Keypad Operation	Via onboard keypad, UCMP and brake torque test can be performed.	•	•
55	Fault Code Display	Main board digital tube cyclically displays all current faults.	•	•
56	Voice Comfort	When elevator times out, overloads, faults and levels to nearest floor, or during door operation, automatically broadcasts voice guidance to reassure passengers.	•	•
57	Five-Party Intercom	For communication between car, car top, pit, machine room, and monitoring center via intercom devices (cable from machine room to monitoring center provided by user).	•	•
58	Pre-opening of Door	When elevator approaches door zone and safety conditions are met, door opens early and elevator creeps to leveling position.	•	•
59	Attendant Service	By operating a switch in car, enters attendant mode where driver manages passenger count, hall call response, door open/close, etc.	•	•
60	Voice Comfort	When elevator times out, overloads, faults and levels to nearest floor, or during door operation, automatically broadcasts voice guidance to reassure passengers.	•	•

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61	Auto Hall Call Registration After Overload Clears	If overload occurs at a floor, after overload clears and elevator runs, automatically registers hall call at that floor according to current direction.	•	•
62	Star-Shorting Anti-Stall	When elevator stops, star-shorting circuit activates, generating reverse torque when coils cut permanent magnet flux to prevent stall if brake fails.	•	•
63	Door Open Standby	Changes normal door close standby; when selected, elevator keeps doors open at base floor when idle, maintaining ventilation.	•	•
64	Fire Return	After fire return to base floor, car lighting turns off, then turns on when firefighter enters.	•	•
65	Intelligent Comfortable Ride	Control system automatically calculates optimal speed curve based on different floor distances for smooth and comfortable ride.	•	•
66	Intelligent Hall Call Registration	In group mode, if one elevator cannot take all waiting passengers, hall button automatically re-registers and system dispatches another elevator.	•	•
67	Hall Call Cut-Off Switch	Switch on main board to disable hall calls for commissioning/maintenance.	•	•
68	Customized Floor Display	Floor display can be set as 0-9, A-Z, or any two characters, or 3-digit display. Note: 0 and O, 5 and S cannot be distinguished.	•	•
69	Control System Temperature Monitoring	Real-time monitoring; if overheat trend detected, switches to safe mode to prevent trapping.	•	•
70	Wire Rope Slip Self-Check	Real-time monitoring of relative displacement of traction wire rope.	•	•

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71	Power Supply Anomaly Monitoring	When grid fluctuation exceeds safe range, phase loss (only 8642 detects), phase reversal, system enters protection and stops.	●	●
72	Hall and Car Direction Pre-Indication	Before reaching destination floor, if no same direction calls after that floor, direction display changes early.	●	●
73	Down Collective Selection	The elevator only has up hall call buttons on the ground floor or base floor, and down hall call buttons on other floors; after comprehensive analysis of hall calls and car calls, the elevator automatically prioritizes and answers signals consistent with the running direction in sequence.	○	○
74	Fire Return Success Feedback	When fire function is optional, the system can provide a dry contact to feedback the success signal of fire return to the building's fire system.	○	○
75	Emergency Firefighter Service	After successful fire return, when the fire key switch in the car is activated, the elevator no longer registers hall calls and only answers car calls, to assist firefighters. (This function requires fire elevator configuration)	○	○
76	Photoelectric Eye & Safety Shoe Protection	Dual protection using reliable mechanical shoes and sensitive infrared beams to ensure passenger safety when entering/exiting the car.	○	○
77	Anti-Nuisance Protection	To avoid empty runs, system logically judges load and cancels abnormal car calls (e.g., pressing three or more buttons simultaneously).	○	○
78	Anti-Crime Protection	Via parameter setting or external switch, elevator enters anti-crime mode, stopping and opening doors at preset floors for guard or receptionist check.	○	○
79	Restaurant Waiting	Allocates longer door open time for restaurant floor to accommodate extra traffic.	○	○
80	Automatic Cancellation of Opposite Direction Calls	When elevator reaches farthest floor and is about to reverse, all previously registered opposite direction calls are canceled.	○	○

No.	Function Name	Description	SMART100	MASTER
81	Load Weighing Torque Compensation	With continuous electronic weighing, system calculates car load and optimizes starting torque compensation. (Requires electronic continuous weighing)	☐	☐
82	Inspection Zero-Speed Stop	During inspection stop, elevator decelerates to zero speed before engaging brake, reducing brake wear.	☐	☐
83	Arrival Button Pre-Indication	Based on optimal curve, pre-indicates next stop with corresponding floor button flashing.	☐	☐
84	Arrival Display Pre-Indication	Based on optimal curve, pre-indicates next stop with corresponding floor number flashing.	☐	☐
85	Steel Belt Natural Life Protection	Records and stores steel belt life; when life reaches set value, elevator enters protection. (For steel belt configuration)	☐	☐
86	Steel Belt Bending Count Protection	Calculates bending times of any steel belt section; when max bending count reaches set value, elevator enters protection. (For steel belt configuration)	☐	☐
87	Steel Belt Stagnation Detection	Detects car stagnation via sensor; if stagnation occurs, elevator enters protection. (For steel belt configuration)	☐	☐
88	Steel Belt Break Detection	Detects belt break via sensor; if break occurs, elevator enters protection. (For steel belt configuration)	☐	☐
89	Door Hold	When many passengers boarding, press and hold open button to extend door open time. In group control, when one elevator enters door hold, its hall calls are reassigned to others. Door hold can be activated by long-pressing open button.	☐	☐
90	Attendant Bypass	When attendant switch is on, pressing attendant bypass switch bypasses all hall calls to go directly to destination floor; turning off bypass resumes hall call response.	☐	☐

No.	Function Name	Description	SMART100	MASTER
91	Duplex/Group Control	For two or more elevators of same type to be controlled as a group, automatically selecting the most appropriate car to answer calls, reducing duplicate stops and waiting time, improving efficiency.	☐	☐
92	Area Examination System (AES)	A microcomputer-based intelligent management system monitoring elevators within a zone, providing data for building intelligent management.	☐	☐
93	Hall Arrival Lantern/Chime	When optional, each floor has up/down arrival lantern/chime to indicate elevator arrival.	☐	☐
94	Voice Annunciator	During leveling, announces upcoming floor; before door close, announces direction. During deceleration, announces next stop to alert passengers.	☐	☐
95	Automatic Re-leveling	When car floor deviates from landing floor beyond a certain value due to load change, elevator automatically re-levels to correct position. (For speed $\geq 2.0\text{m/s}$, this function is standard)	☐	☐
96	Creep Re-leveling	When vertical deviation between car sill and landing sill exceeds a certain value due to load change, elevator automatically performs door open re-leveling to correct position.	☐	☐
97	Timed Power On/Off	Enables timed switch on/off, automatically controlling car switch-off.	☐	☐
98	Car Smart IC System	IC card management restricts access to specific floors via car and hall card readers, managing personnel movement. This function is for elevator only and cannot integrate with building IC systems.	☐	☐
99	Earthquake Operation	Upon receiving earthquake signal, system cancels all calls, elevator stops at nearest floor, opens doors to release passengers, and shuts down. User must provide earthquake signal.	☐	☐
100	Password Floor Service	Allows setting passwords via car buttons for access management to specific floors.	☐	☐

No.	Function Name	Description	SMART100	MASTER
101	Up Peak Traffic Service	To relieve up peak traffic, when load in lobby reaches preset value (usually 50%), elevator immediately starts and maintains this mode during peak. (Valid only for duplex/group, not single)	○	○
102	Emergency Power Operation	Upon power failure, when connected to emergency power, cars in group sequentially run to specified (or next) floor, open doors to release passengers. Some cars can be assigned for normal service. When power restored, all resume normal.	○	○
103	Car Assignment Pre-Indication	In duplex/group (2+ cars), when a hall call is registered, hall arrival lantern indicates which elevator will serve.	○	○
104	Door Close Timeout Reminder	Door timeout signal output for voice comfort.	○	○
105	Position Self-Learning	During commissioning, system automatically checks position reference system correctness.	○	○
106	Independent Front/Rear Door Control	Separate control of front and rear door open/close; main operation panel controls front door, auxiliary panel controls rear door (with two panels).	○	○
107	Emergency Manual Rescue (HSD)	When power fails, maintenance can use backup battery in control system to evacuate passengers. (For machine-room-less configuration)	○	○
108	Power Failure Emergency Evacuation Device	Upon sudden power failure, device activates, drives elevator slowly to leveling position, opens doors with voice prompt to evacuate passengers.	○	○
109	Hall Anti-Nuisance	Hall calls include up/down; if misoperated, normal elevator would open/close doors twice. This function reduces one open/close to improve efficiency.	○	○

Symbol	Definition	Description
●	Standard function	Basic function of current software/hardware version
○	Optional function	Function requiring additional electrical components or parameter modification