

OTIS GEN2 SWITCH

The elevator you plug in like a domestic appliance

OTIS



Efficient

Sustainable

Ecological



Single-phase
current of 230V

500W of power
for operation

More than
100 trips
without power
from the grid

Plug & Go

The OTIS GeN2 Switch is a highly efficient, functional elevator, ideally suited for residential buildings, especially properties that were built without an elevator.

EASY TO INSTALL

The only requirement for installation is a single-phase 230V power outlet, just like an electrical appliance. No specific electrical installation is necessary as it only needs 500W of power for operation, less than a microwave.

OPERATES IN THE EVENT OF A POWER FAILURE

In the case of a sudden power cut, the OTIS GeN2 Switch continues working as normal thanks to a system of accumulators, thus ensuring passengers can still use the elevator, which is especially important in the case of disabled users or passengers with reduced mobility. It can make more than 100 trips without power from the electricity grid.

GENERATES ENERGY

Depending on the load inside the car and the direction of travel, the Otis GeN2 Switch generates energy that is used to recharge the accumulators, thus reducing the electrical consumption from the grid and achieving significant savings in the electricity bill.

Savings in installation



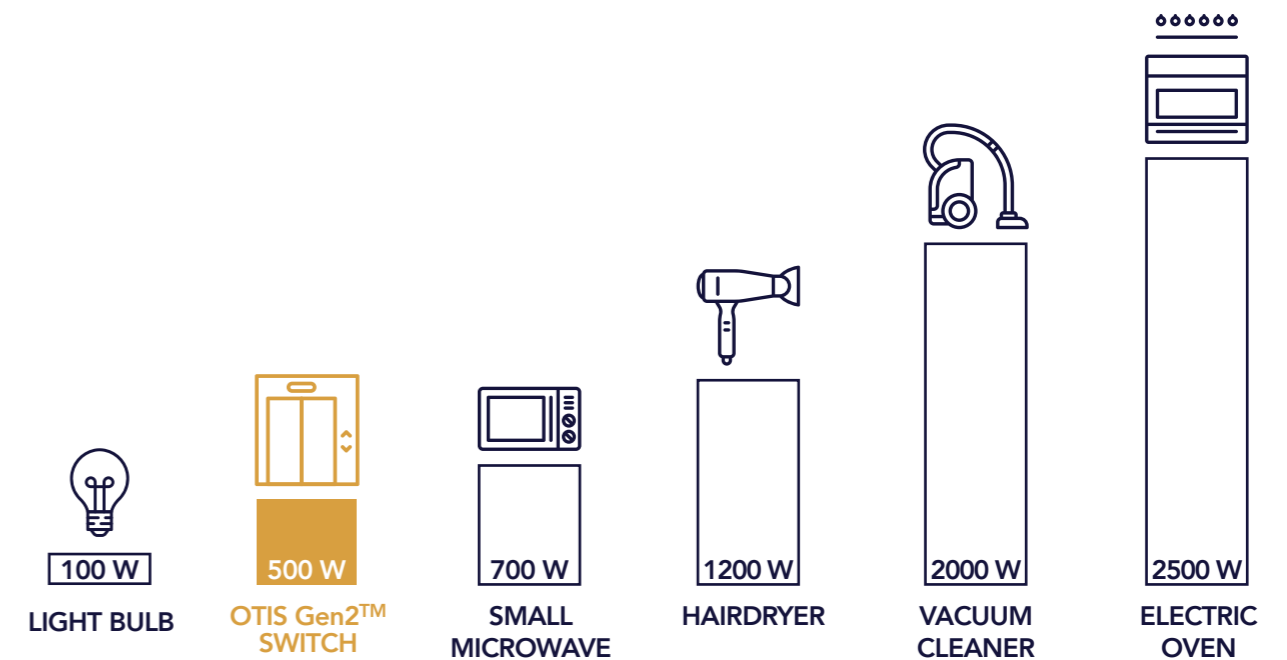
Unparalleled savings

The GeN2 Switch elevator operates with single-phase current of 230V, like an electrical appliance. As a special power point is not necessary for the installation of the elevator, this represents considerable savings in construction costs.

+ SINGLE-PHASE 230V POWER OUTLET, LIKE AN ELECTRICAL APPLIANCE

In addition, it only requires 500W of power for operation, less than a microwave or equal to 5 bulbs of 100 watts. This is an important saving in the fixed power charge of the monthly electricity bill, as it is not necessary to contract more power from the electricity company for elevator operation.

+ ONLY 500W OF POWER FOR OPERATION



Comparison of electrical appliances

More than 100 trips without connection to the grid



Operates in the event of a power cut

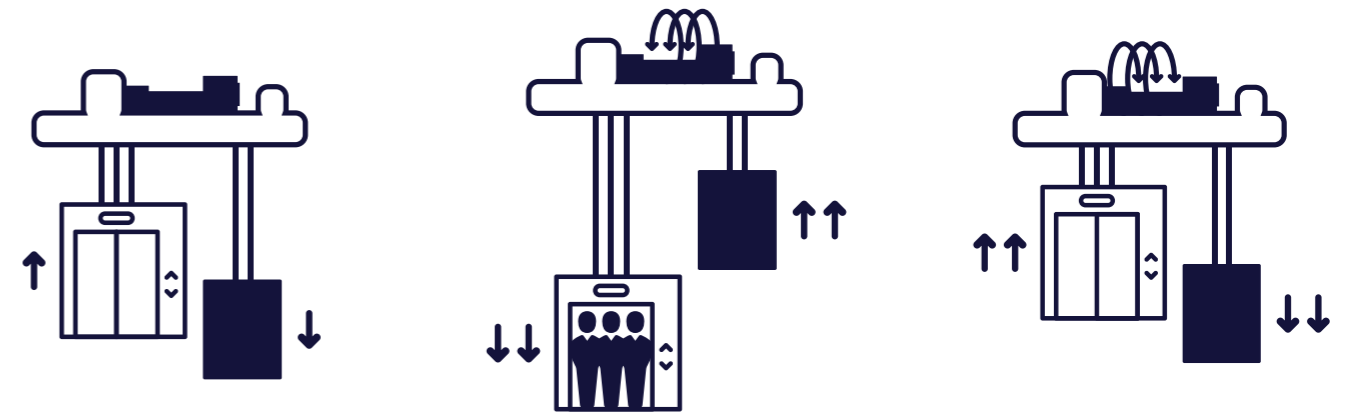
In the event of a power failure, its system of accumulators allows the elevator to continue operating as normal for more than 100 trips, thus guaranteeing the mobility of all users, which is especially important in the case of people with disabilities or reduced mobility.

How does it generate energy?

When the loaded car travels down, the effect of gravity makes the motor produce electricity instead of consuming it, as if it were a dynamo.

The same occurs when an empty or lightly loaded car travels up. The counterweight descends by the effect of gravity and the motor generates energy.

The regenerative system of the Otis GeN2 Switch can harness the energy generated by the elevator and use it to recharge the accumulators of the system.



An elevator consists of a car and a counterweight that are connected by a machine. When the counterweight travels down, the car travels up and vice versa.

A heavily loaded car weighs more than the counterweight and utilises gravity to travel down, thus generating energy.

The same occurs when an empty car travels up. In this case, as the counterweight is heavier, it utilises gravity to travel down, thus generating energy.

Savings in operational costs



QUIETER
AND MORE
COMFORTABLE

LESS
ENERGY
CONSUMPTION

GREATER
RELIABILITY

Enjoy all the benefits of Gen2 Switch technology

The latest generation of elevators with Gen2 Switch technology are designed to minimise energy consumption and achieve maximum environmental protection, reducing the emissions of pollutants to zero.

The Otis Gen2 Switch is a machine-roomless elevator in which traditional steel ropes have been replaced by flat polyurethane-coated steel belts. The belts are 20% lighter and much more flexible and last up to three times longer.

The flexibility of the belts allows for a much smaller sheave of the motor and thus a more efficient machine.

As the machine has no gears, it produces less noise and is less susceptible to breakdowns and faults as it has fewer parts, which increases its reliability and durability.

Thanks to its advanced motion control, it guarantees consistently smooth acceleration and deceleration, in addition to outstanding levelling accuracy of the car.

Specifications

SPEED AND LOAD CAPACITY

- Variable speed between 0.63 m/s and 1.00 m/s.
- Load capacity: from 3 to 8 passengers (225 to 630 kg).

ENTRANCES AND RISE

- One or two entrances (90° or 180°).
- Rise:

No. of Pass	Rise (m)	No. of Stops
≤ 6	≤ 27	≤ 10
7	≤ 24	≤ 9
8	≤ 21	≤ 8

TRACTION EQUIPMENT

- Gearless sealed machine and permanent-magnet motor.
- Traction by means of flat belts.
- 2:1 configuration with lower suspension or cantilever type suspension.

CONTROL

- Closed loop, variable freque.

CONTROLLER

- Modular microprocessor control system MCS 220, combined with an advanced variable frequency, variable voltage system.
- Located in the landing door column on the top floor. As an option, it can be installed at a distance of up to 20 metres.
- Two-way communication and remote intervention system.

OPERATION

- Simple automatic or down collective.
- Up to 2 elevators in a group.

TYPES OF DOORS

- Automatic telescopic or centre-opening doors.
- Equipped with a variable speed, digital control system, self-cleaning slotted sill.
- Stainless steel finish or prime coated steel ready for finishing.

ELECTRICAL POWER

- Voltage from grid: single-phase 230V 50/60 Hz
- Power: 0.5kW

Hoistway dimensions

Capacity		4D	5D	6S	6D	7D	8D	
Load (Kgs)		320	400	450	480	525	630	
Car dimensions (mm)	CW	840	840	1000	1000	1000	1100	
	CD	1050	1200	1250	1300	1350	1400	
Door dimensions (mm)	Telescopic (TLD)	700	700/750	800/900	800/850/900	800/850/900	800/900/1000	
	Centre-opening (CLD)			800	800	800	800/900	
Hoistway dimensions (mm)	HW	1350	1350/1450	1550 (TLD 800) 1800 (CLD 800) 1650 (TLD 900)	1550 (TLD800) 1550 (TLD850) 1650 (TLD900) 1800 (CLD800)	1550 (TLD 800) 1550 (TLD 850) 1800 (CLD 800) 1650 (TLD 900)	1600 (TLD 800) 1600 (TLD 1000)* 1800 (CLD 800) 1650 (TLD 900) 2000 (CLD 900)	
	WTW	1 entrance	1300	1450	1500	1550	1600	1650
		2 entrances	1400	1550	1600	1650	1700	1750

Dimensions of doors mounted on landing.
Pit: 1.000 mm at 1.0 m/s. For other hoistway dimensions, consult us.

*1600 (TLD 1000) Selcom of 3 panels.

CW = Car width
CD = Car depth
HW = Hoistway width
WTW = Hoistway depth

Controller: 400mm wide x 203mm deep x 2100mm high.

Door Height (mm)	Car Height (mm)	Overhead Clearance** at 1m/s (mm)	Availability
2000	2100	3300	Optional
2000	2200	3400	Standard
2100	2300	3500	Optional

** The overhead required may be increased by 200mm depending on the dimensions of the hoistway

The hoistway dimensions are for a configuration of guide rails facing each other. To achieve the best use of the hoistway, there are two possible configurations: the guide rails and counterweight rails installed on one side or at the rear.

A highly efficient and sustainable elevator



Adapts to any building and hoistway

As the OTIS Gen2 Switch does not require three-phase installation, considerable construction savings can be achieved per flat as well as faster installation times in the case of existing buildings.

Because of the wide range of possibilities with regard to dimensions and configurations, the OTIS Gen2 Switch can be adapted to any hoistway, which is particularly interesting in the case of buildings that were constructed without an elevator.

Gen2 Switch Solar

The Gen2 Switch Solar elevator operates with one hundred per cent clean energy produced by photovoltaic solar panels connected to the elevator that provide the energy needed to operate without having to be connected to the electricity grid.

In addition, thanks to its system of accumulators, the elevator also stores the energy it generates when it travels down loaded or travels up empty, making it entirely independent of the electricity grid.



Respect for the environment

The OTIS Gen2 Switch that generates energy to power its own accumulators is a clear example of our commitment and determination to develop innovative elevators that reduce energy consumption to a minimum.

New car designs

A wide range of designs that allow you to choose the style and the materials that best adapt to the interior design of your building.

+ NATURAL COLLECTION
Inspired by materials present in nature, stone and leather.

+ MODERN COLLECTION
Metallic textures and bright colours.

More than 400,000 possible combinations.

eView, a window in your elevator to the outside world

The Otis Gen2 Switch elevator is equipped with an exclusive Digital Screen.

+ SAFETY
Permanently in communication with Otisline® by videoconference.

+ SIGNAGE
Information about date and time, as well as position and destination of the car.

+ ENTERTAINMENT AND CUSTOMISATION
Broadcasts content about current events, news, weather, etc. and can be personalised according to a customer's needs.

+ MONITORING
Remote control of the main operational parameters of the elevator.



— Otis gives people freedom to connect and thrive in a taller, faster, smarter world. The global leader in the manufacture, installation and servicing of elevators and escalators, we move 2 billion people a day and maintain more than 2 million customer units worldwide – the industry’s largest Service portfolio. You’ll find us in the world’s most iconic structures, as well as residential and commercial buildings, transportation hubs and everywhere people are on the move. Headquartered in Connecticut, USA, Otis is 69,000 people strong, including 40,000 field professionals, all committed to meeting the diverse needs of our customers and passengers in more than 200 countries and territories. To learn more, visit www.otis.com and follow us on LinkedIn, Instagram, Facebook and Twitter @OtisElevatorCo.

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