

Technical Specifications

Irizar i3

Interurban spirit,
now 100% electric



FOR A
BETTER
LIFE.

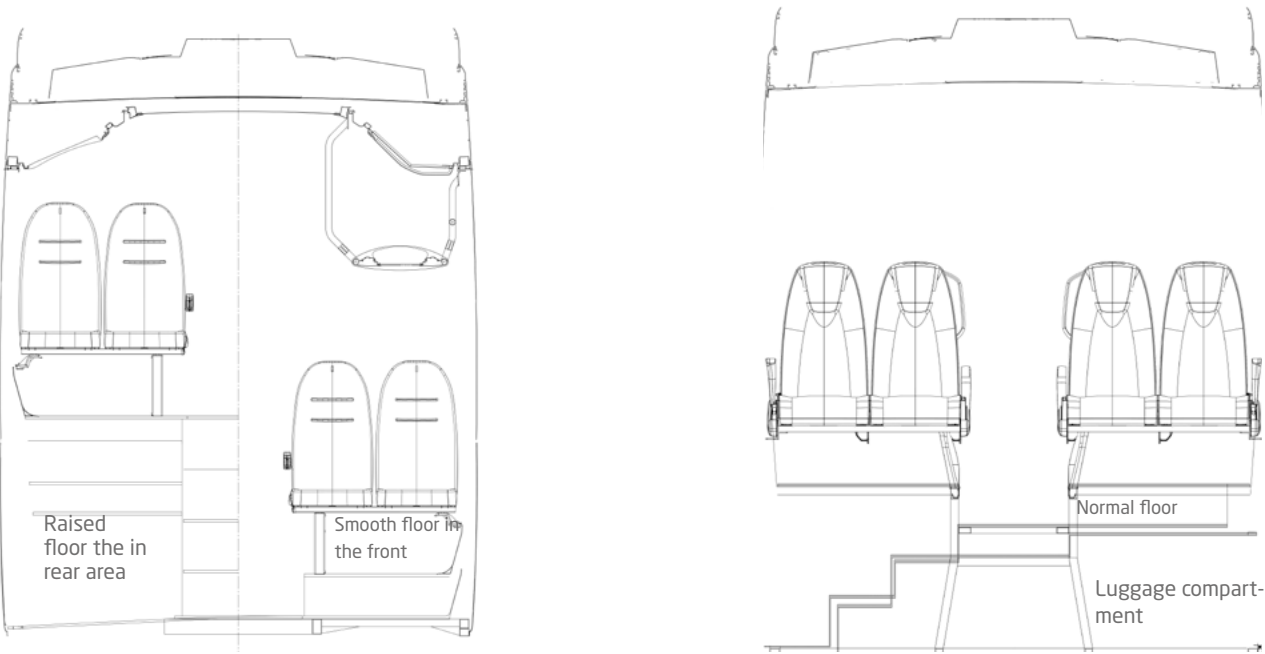
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⚡ INTERCITY VEHICLE
100% ELECTRIC AND SILENT

Irizar i3 100% electric, developed to improve efficiency in class II vehicles. Irizar’s range of electromobility for interurban mobility, with a completely new design for a silent and zero-emission vehicle. This new vehicle is presented with a reduction of up to 1000 kg, thanks to the use of stronger and lighter components. In addition, it maximises the number of passengers while keeping the same features of the entire range of Irizar vehicles.

The Irizar i3 is available in two configurations, Low Entry and Normal Floor, to suit each operator’s needs. A versatile, accessible vehicle that maximises luggage space in its Normal Floor version.



Configure the Irizar i3 to suit you:

Irizar i3 Low Entry



12.75 metres
with two axles



14.90 metres
with three axles

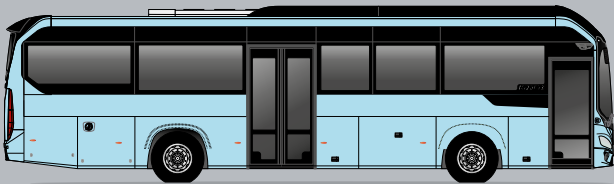
* The configurations may vary depending on the country and chassis manufacturer.

	Dimensions
Length	From 12.75 m (2 axles) to 14.90 m (3 axles)
Maximum height:	3,550 mm
Width	2,543 mm
Distance between axles	6,444 mm / 7,050 mm
Front overhang	2,840 mm
Rear overhang	3,470 mm / 3,550 mm
Internal height	2,600 mm
Approach angle:	7.1°
Departure angle	7.1°
Width front door	730 mm
Central/rear door width	1,200 mm
Front door step height	340 mm (270 mm with kneeling)*
Front/rear door step height	360 mm (290 mm with kneeling)*
Turning circle	11,541 mm (12.75 m) / 12,300 mm (14.90 m)

* Varies depending on the chassis.

Configure the Irizar i3 to suit you:

Irizar i3 Normal Floor



12.2 metres
with two axles



14.99 metres
with three axles

** The configurations may vary depending on the country and chassis manufacturer.
Availability of different lengths.*

	Dimensions
Length	From 12.2 m (2 axles) to 14.99 m (3 axles)
Maximum height:	3,550 mm
Width	2,543 mm
Distance between axles	5,940 mm / 7,290 mm
Front overhang	2,790 mm / 2,690 mm
Rear overhang	3,470 mm / 3,550 mm
Internal height	2,200 mm
Approach angle	7.1°
Departure angle	7.1°
Width front door	730 mm
Central/rear door width	Up to 1,200 mm. Single and double door option
Front door step height	340 mm (270 mm with kneeling)*
Front/rear door step height	360 mm (290 mm with kneeling)*
Turning circle	10,871 mm (12.2 m) / 12,436 mm (14.99 m)
Luggage compartment capacity	Up to 7.1m³

* Varies depending on the chassis.



CUTTING-EDGE DESIGN AND
MAXIMUM LUGGAGE CAPACITY

The Irizar i3 electric has a completely avant-garde design. With a more aggressive front end and more marked lines, it aligns with the rest of the Irizar vehicle range. A vehicle completely designed for the sustainable future of the interurban environment: silent and zero emissions.

In addition, this new design has updated the structural materials used. Thanks to the application of lighter and stronger components, it has removed 1,000 kg of weight. Its autonomy stands out, which allows it to carry out more than 400 km on a single charge per day, to favour all customers’ operations.

In addition, in the Normal Floor version of the electric Irizar i3, luggage compartment capacity is maximised, with the aim of facilitating intercity mobility.



Zero-emissions



Zero noise



Cutting edge design



Range



Luggage compartment*

*Normal Floor Version



MAXIMUM COMFORT AT THE WHEEL

The dashboard has been redesigned to improve its features and optimise driver comfort

The driver position can optionally be mobile, with a design developed according to ISO16121 and VDV234 criteria.

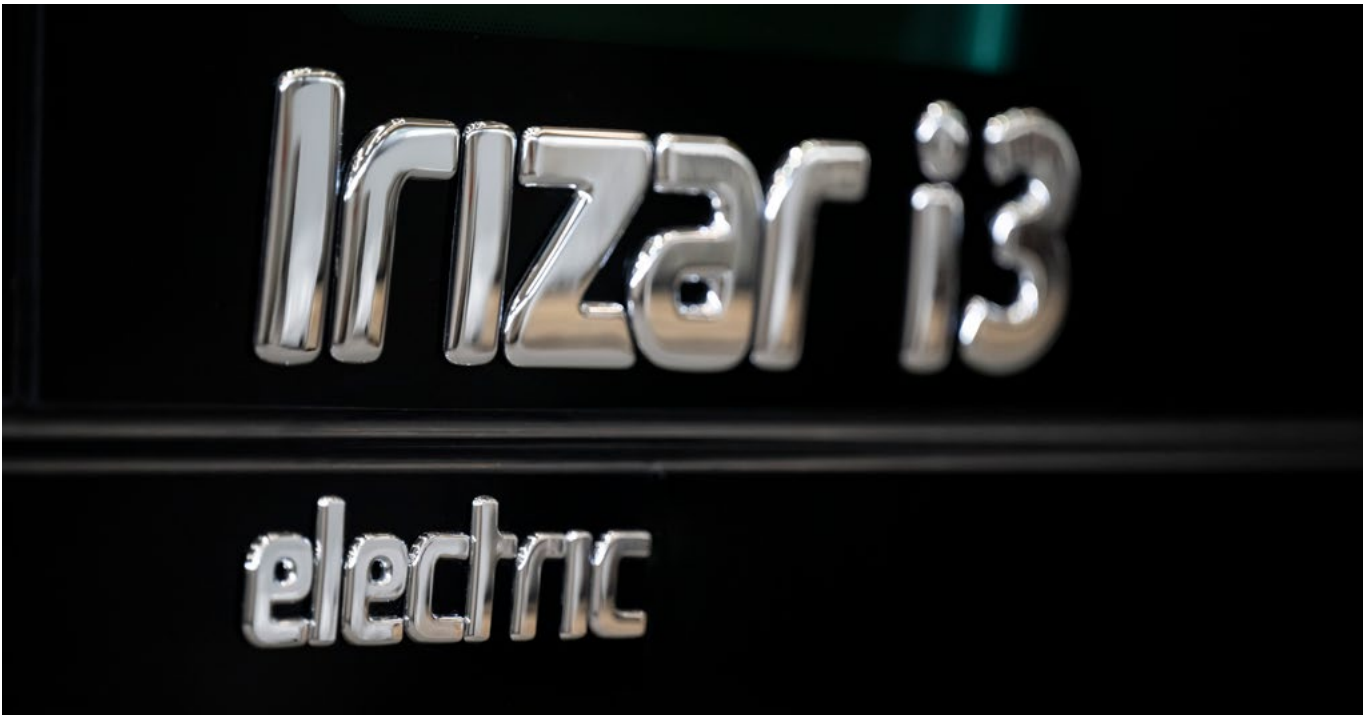
DRIVER	LOW ENTRY	NORMAL FLOOR
Carpeted driver's seat		
Driver's seat armrest	optional	optional
Heated and ventilated driver seat	optional	optional
Multifunction steering wheel		
Vending machine base		
12V charger for driver		
Electrically operated windshield blinds		
Safe under driver		
Full-closure anti-vandal screen in the driver area	optional	optional
Camera mirror system		
Camera mirror recording system	optional	optional



LARGE CAPACITY OF PASSENGERS

The new electric Irizar i3 keeps the same features as the rest of the range of Irizar Vehicles

PASSENGER AREA	LOW ENTRY	NORMAL FLOOR
Standard i3 seats		n/a
i4 seats	optional	
Optional 3-point safety belts on seats	optional	optional
Fixed aisle armrest	optional	optional
Folding aisle armrest	optional	optional
Luggage racks	optional	
Pneumatic luggage compartment covers		optional
Information Systems	optional	optional
Folding / Universal seat (unit)	optional	optional
USB (in seats or grab handles)	optional	optional
Pedestal to enable seats to be fitted in PRM area (per PRM gap)	optional	optional



MAXIMUM RANGE

The electric Irizar i3 has
a range of more than 400 km

DRIVE	
Rated power	260 kW (350 CV)
Drive System	Synchronous central motor
Transmission	3 speed integrated gearbox
Rated power	260kW / 380 kW
Maximum power	325kW / 400 kW
Maximum torque	2,000 Nm (output 15,000 Nm)
Maximum speed	100 km/h
Traction capacity on slopes greater than 20%	

WEIGHTS	
Maximum front axle weight	8,000 kg
Maximum rear axle weight	12,600 kg



ENERGY STORAGE SYSTEM

Battery technology	Lithium-ion
On-board energy	More than 500 kWh*
Range	More than 500 km
Charging times	2 - 5 hours**

*Possibility of adapting it to the client's needs
**Depending on the charging power



Versatility in charging mode

Available with a power of up to 300 kW. Plug or pantograph charging options. The latter allows charging automation and the optimization of the charging power to specific needs.



Let’s talk about cybersecurity

We work day in day out to keep ahead of the cybersecurity challenges of our vehicles. We comply with the R155 and R156 European regulations for cybersecurity management systems and vehicle software updates. We can thus guarantee that the systems work as expected, and we can mitigate the security risks that arise.

We are firmly committed to protecting and guaranteeing information confidentiality and integrity and the safety of everyone.

+ Front collision warning

Warns of an impending forward collision, giving the driver enough time to react.

+ Safety distance monitoring

Safety distance monitoring warns the driver if they are driving at an unsafe distance from the previous vehicle.

+ Pedestrian collision warning

Daytime warning with visual alerts of an impending collision with a cyclist or pedestrian.

LEADING THE WAY IN SAFETY

We meet the highest safety standards within the new GSR2 regulatory framework by integrating advanced components, like cameras, radar, etc. for your and your passenger’s safety. In addition, we meet the ISO 3834 standard for welding quality.

The components of this vehicle have data analytics functionalities for detecting irregularities and preventive maintenance.



MOIS

System that detects the presence of pedestrians and cyclists in the vehicle’s front blind spot and alerts the driver.



BSIS

This system detects other vehicles located next to and behind the coach, on the side opposite the driver’s position.



DDAW

Driver fatigue detection system



ADDW

Driver distraction detection system



ISA

This system uses a speed signal recognition camera and/or speed limit data linked to GPS to warn drivers of the current speed limit, warning if this limit has been exceeded.



ReIS

Camera and sensor technology that shows the driver if there are objects or people behind the vehicle when it’s backing up.



TPMS

Tire pressure and temperature monitoring system.



LDWS

Lane departure warning system.



Emergency Braking Signal

System for activating the emergency lights when emergency braking is detected



Alcohol Interlock Installation Facilitation

Ignition block using a breathalyser



Front impact protection system ECE-R29/FIP

Reinforced frontal impact protection system. This provides additional protection for the driver/ guide and passengers.

More safety systems

- + EBS (ABS, ASR, ESC, BFD), AHBC, ECAS
- + Fire resistance regulation 118R
- + ECE-R66/02 roll-over regulation
- + Electromagnetic compatibility per regulation 10R
- + Creepage and Hillholder / Ecoassist function
- + Built-in AVAS per R138



MAXIMUM ACCESSIBILITY

Various configurations of doors with single or double leaves and different locations.The doors are electric opening, with automatic security sensors and emergency devices. In addition, you can choose from manual or electric ramps and up to two PRM exclusive areas.

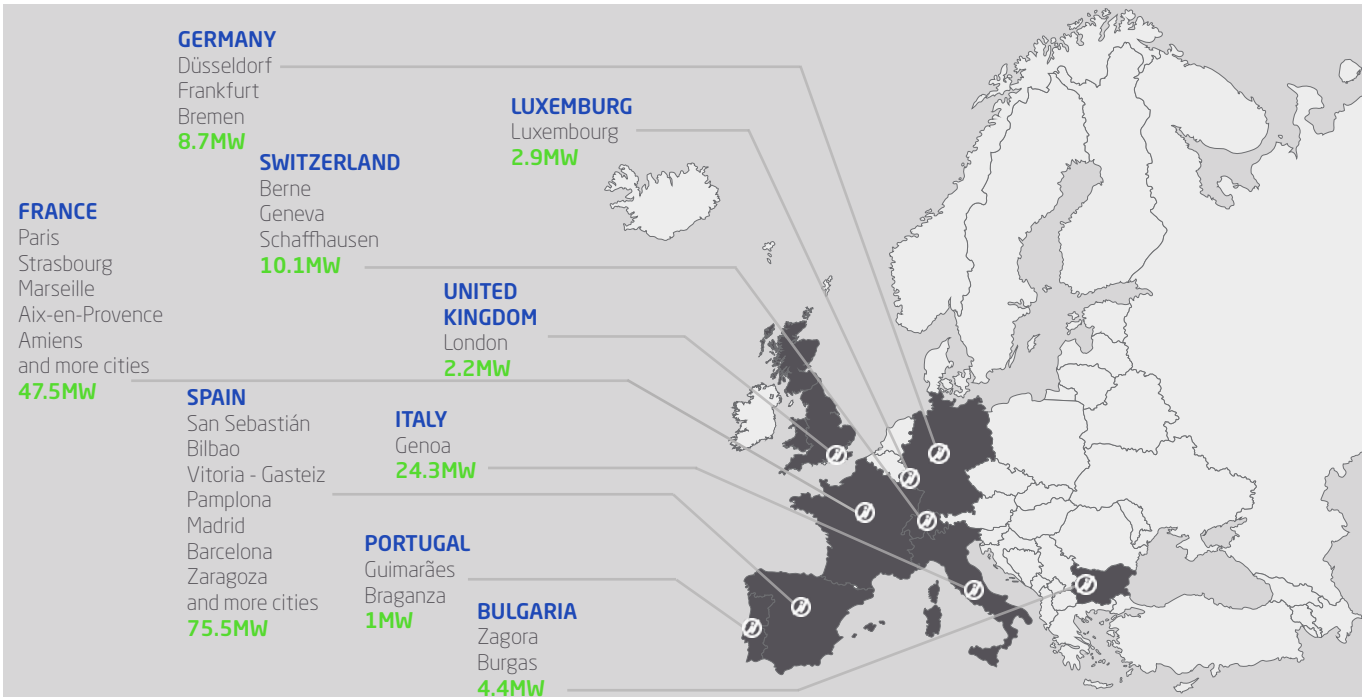
LIFTS AND RAILS FOR PRM	LOW ENTRY	NORMAL FLOOR
Double front door		n/a
Single front door	optional	
Manual PRM ramp on double central door	optional	n/a
Automatic PRM ramp on double central door	optional	n/a
Telescopic PRM ramp (manual + automatic) on double central door	optional	n/a
Wheelchair installation (2 anchors + 1 belt / chair)	optional	
PRM rails in the flat area of the vehicle	optional	
Braille numbering (per seat)	optional	
Central door KS7 ramp	n/a	optional



EQUIPMENT

ELECTRICITY AND ELECTRONICS	LOW ENTRY	NORMAL FLOOR
Multiplexed system		
Camera view of central footboard	optional	optional
Wi-Fi pre-installation	optional	
Pre-installation of passenger video surveillance system with 3 aisle cameras	optional	optional
Destination sign	optional	optional
Luminous buzzer on front door	optional	optional
Inside and outside LED lighting		

HEATING AND VENTILATION SYSTEM	
Driver - Hispacold Zero Emissions climate control system	(cold: 3.5 kW, heat: 13kW)
Passengers - Hispacold Zero Emissions climate control system	(cooling: up to 28 kW, heating: up to 32 kW)
Programmable Pre-heater	optional
Floor convector heaters	
Smart climate management with the vehicle turned off	optional



Power installed in European countries by the Irizar Group through Jema Energy.

OTHER	LOW ENTRY	NORMAL FLOOR
Single glazing		
Double glazing	optional	optional
Double glazed windows	optional	optional
Hinged windows	optional	optional
Rear parking sensor	optional	optional
Fire detection and extinguishing system		
Electronic tire pressure sensor		
Tow-bar bracket	optional	
Windshield chip protection vinyl	optional	
Brake actuation safety system in the event of driver abandonment	optional	optional
Outside door sliding mechanism	optional	n/a
Carbon steel grating / floor		optional
Stainless steel grating / floor	optional	
Front divided into five parts for easy and economic interchange of external bodywork		
Acoustic insulation of ceiling and sides		
Interior and exterior LED lighting		
Anti-graffiti materials		

OUR PATH TO ELECTRIFICATION

This class II electric vehicle is an addition to the Irizar Group’s urban electromobility line, that makes a firm commitment to sustainability. That is why all the member companies have their sights set on developing products conceived for the future of electrification.

One of the keys to the success of electromobility lies in freight infrastructures, an area in which Jema Energy is a leader. It has deployed more than 1,000 charging points with powers ranging up to 600 kW.

ALWAYS BY YOUR SIDE OUR SERVICES

Guarantee of vehicle reliability and availability

Our coaches undergo rigorous reliability tests before they are marketed. They currently circulate in 5 continents in extreme conditions.

They incorporate robust, reliable and proven technology and components to reduce downtime and increase availability and use.

They are also designed to facilitate maintenance and make diagnostic capability.



Close, customised attention and advice.

Integral vehicle

We provide a complete range of services that makes it possible to keep the coaches in optimal condition, improve performance, minimise emissions and lower operating costs.

- Wide service network and mobile units with trusted technicians.

- Training courses to ensure that their safety and repair and maintenance performance is always of the highest quality.

- iService platform (catalogue, e-shop Help Desk, order tracking ...) for service management. Information about repair and maintenance



Turnkey projects and services that meet customer needs.

- 24/7, 365 days a year. Integral vehicle

- Warranty period extension

- Immediate availability of quality original spare parts at very competitive prices.

- Fleet manager with advanced technology for each client's specific processes This enables comprehensive monitoring of cost and driving efficiency, resulting in constant improvement in safety, performance and profitability.



Repair and maintenance contracts.

- Comprehensive electronic management and monitoring solutions for predictive maintenance. The collected operational data is analysed to predict and schedule vehicle maintenance and ensure maximum uptime.

- Eco-driving courses to teach drivers to drive more efficiently and safely, providing significant benefits in terms of increased activity time, improved safety and reduced operating costs.

THE GOAL ENJOY THE TRIP



