

# Technical Specifications

## ***Irizar i3***

Interurban spirit,  
now 100% electric



FOR A  
BETTER  
LIFE.



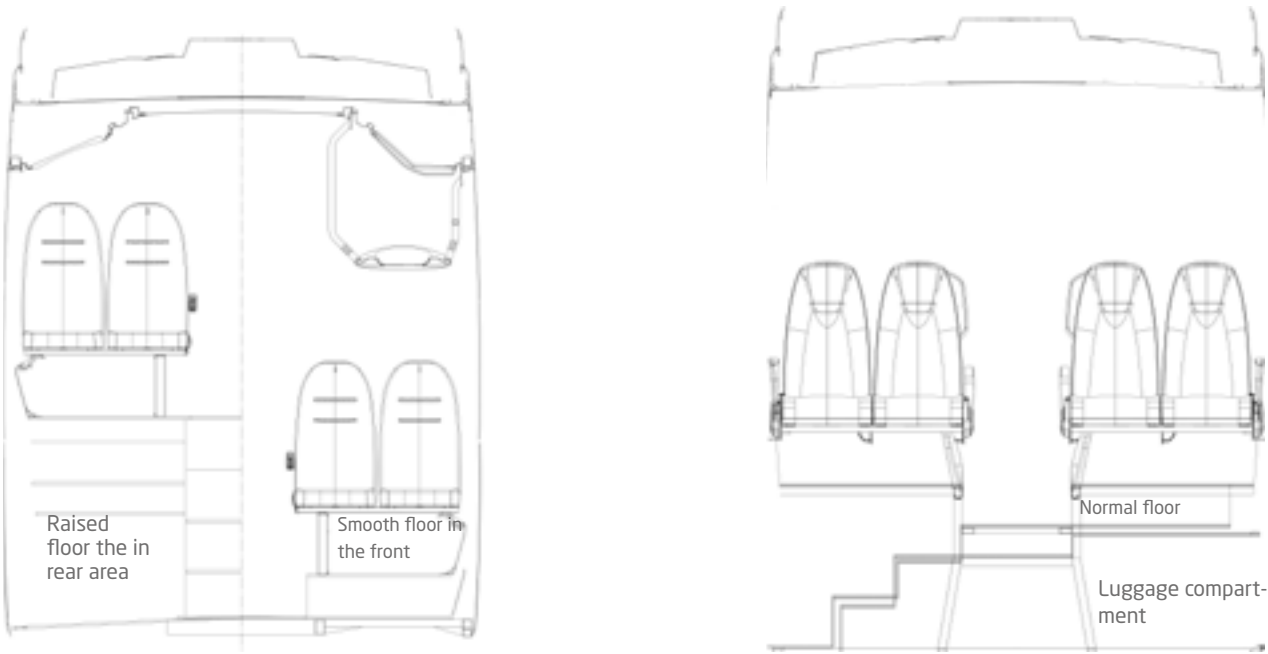
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⚡ INTERCITY VEHICLE  
100% ELECTRIC AND SILENT

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

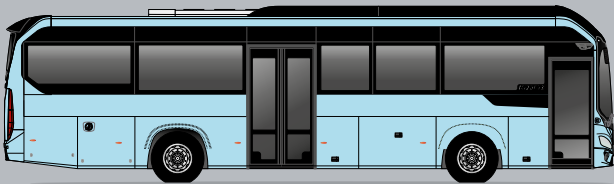
\* The configurations may vary depending on the country and chassis manufacturer.

|                             | 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                                    |
| Front / rear overhang       | 2840 mm / 3470 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              | 11,513 mm (12.75 m) / 12,372 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       | 6,444 mm                                      |
| Front / rear overhang        | 2790 mm / 3470 mm (3550 mm in 3 axes)         |
| Internal height              | 2,600 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               | 11,975 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

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     |



## 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 2-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  | 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                      |
| Maximum power                                | 325kW                      |
| Maximum torque                               | 1500 Nm (output 15,000 Nm) |
| Maximum speed                                | 100 km/h                   |
| Traction capacity on slopes greater than 20% |                            |

|                           |           |
|---------------------------|-----------|
| WEIGHTS                   |           |
| Maximum front axle weight | 7,500 kg  |
| Maximum rear axle weight  | 12,600 kg |



| ENERGY STORAGE SYSTEM | 2 axles            | 3 axles          |
|-----------------------|--------------------|------------------|
|                       | Lithium-ion        | Lithium-ion      |
| Battery technology    | Lithium-ion        | Lithium-ion      |
| On-board energy       | 528 kWh*           | 716 kWh*         |
| Range                 | More than 400 km/h | 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



### 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 regulations
- + 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.

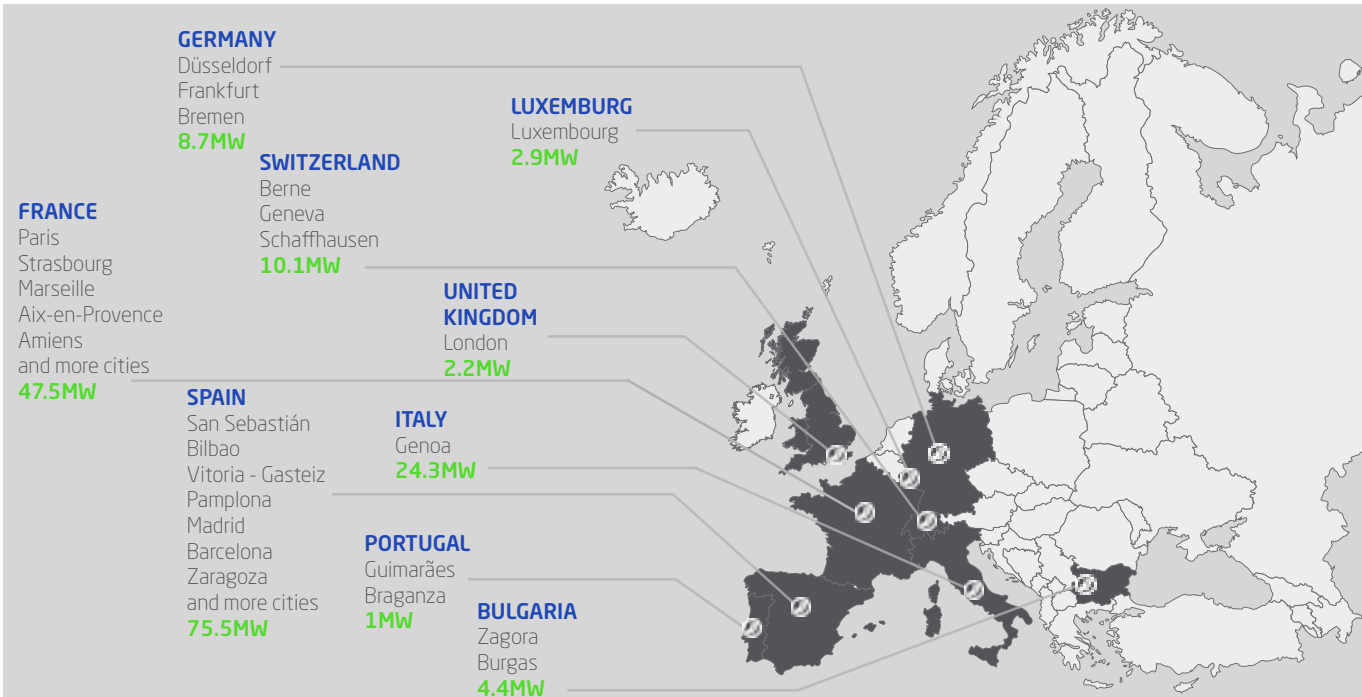
| LIFTS AND RAILS FOR PRM                                         | LOW ENTRY | NORMAL FLOOR |
|-----------------------------------------------------------------|-----------|--------------|
| Double front door                                               |           | n/a          |
| Single front door                                               | 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



#### 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.

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

## THE GOAL ENJOY THE TRIP



