

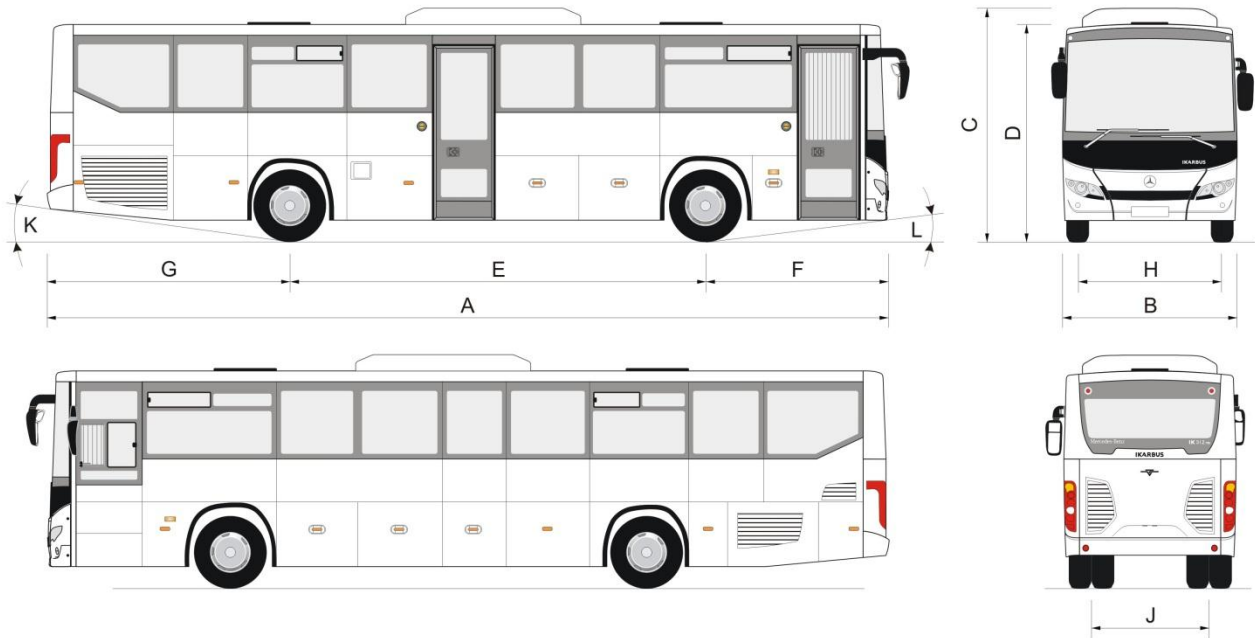


TECHNICAL SPECIFICATION

IK 3 | 2 MB

INTERCITY BUS

2018.



DIMENSIONS

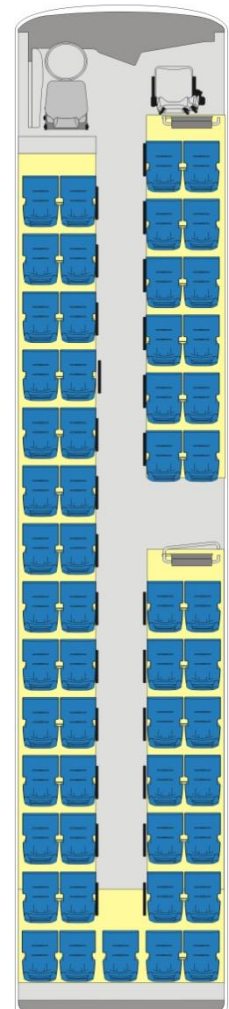
- A – Length 12300 mm
- B – Width 2535 mm
- C – Height (including A/C) 3380 mm
- D – Height 3140 mm
- E – Wheelbase 6100 mm
- F – Front overhang 2655 mm
- G – Rear overhang 3545 mm
- H – Front track 2089 mm
- J – Rear track 1803 mm
- Interior height 2050 mm
- Floor height 1025 mm
- 1st step height 320 mm
- Approach angle 7°
- Departure angle 7°

AXLE LOADS & WEIGHTS

- Front axle load (maximum permissible) 7100 kg
- Rear axle load (maximum permissible) 11500 kg
- Gross vehicle weight (GVW) 18600 kg

SEATING ARRANGEMENT

- This seating arrangement is an example
- Other variants are possible



Seats: up to 55 +1+1



CHASSIS

- Manufacturer..... Mercedes-Benz
- Type..... IBC 2-RF (OC 500 RF 1930)

ENGINE

- Manufacturer..... Daimler AG / Mercedes-Benz
- Type..... OM 936
- Emission standard..... EURO 6
- Fuel type..... diesel
- Construction..... 4-stroke engine
with turbocharger and intercooler
- Mounting position..... rear, vertical engine
- Cylinders (number, arrangement)..... 6, In-line
- Displacement (Swept volume)..... 7698 cm³ (7,7 litres)
- Cylinder bore x Piston stroke..... 110 x 135 mm
- Compression ratio..... 17,0 : 1
- Rated power..... 220 kW (299 hp) / 2200 min⁻¹
- Maximum torque..... 1200 Nm / 1200-1600 min⁻¹
- Fuel injection system..... Common Rail
- Exhaust gas treatment..... SCR system
with AdBlue

TRANSMISSION

- Manufacturer..... Mercedes-Benz
- Type..... GO 190-6
- Transmission..... manual
with integrated retarder (VOITH)
- Number of gears..... 6 + 1(R)

REAR AXLE

- Manufacturer..... Mercedes-Benz
- Type..... RO 440
- Ratio..... 3,154

FRONT AXLE

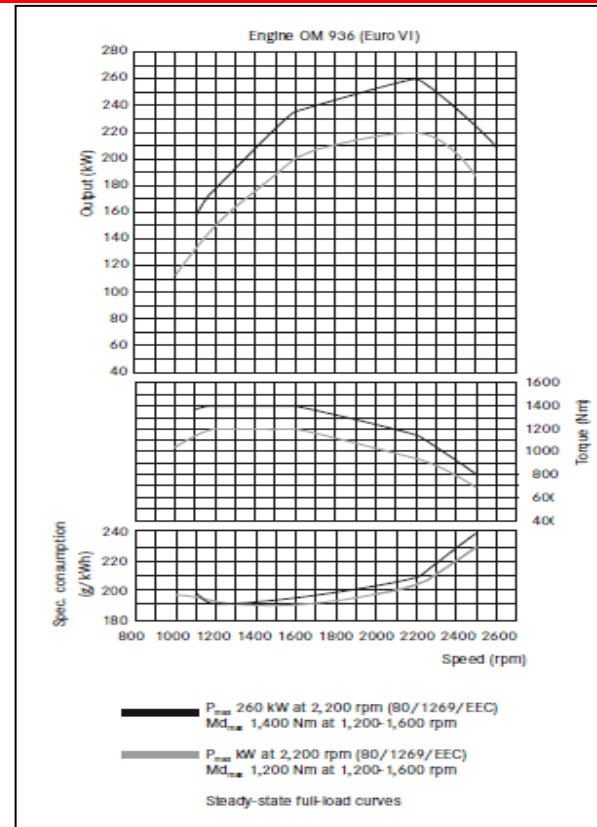
- Manufacturer..... ZF
- Type..... RL-75E
independent suspension

WHEELS & TYRES

- Rims..... 8,25 x 22,5"
- Tyres..... 295/80 R22,5"
- Hubcaps..... stainless steel
- Spare wheel

FUEL TANK

- Capacity..... 450 liters
- Made of stainless materials
- Filler cap..... at right-hand side
- Fuel consumption display on dashboard



STEERING

- Hydraulic power-assisted steering
- ZF 8098 Servocom
- Adjustable steering column with pneumatic lock

SUSPENSION

- ECAS (*Electronically Controlled Air Suspension*)
- ENR (*Electronic Level Control*), independent of door status
- Automatic controlled body lifting
- Front axle
 - air springs (air bellows).....x2
 - shock absorbers.....x2
 - anti-roll bar
- Rear axle
 - air springs (air bellows).....x4
 - shock absorbers.....x4
 - anti-roll bar



BRAKING SYSTEM

- Disk brakes
- Braking systemdual-circuit, pneumatic
- EBS (*Electro-pneumatic Braking System*), with integrated:
 - ABS (*Anti-lock Braking System*)
- Auxiliary braking DBI (*Retarder System Integration*)
 - retarder
 - hand and foot operated
- Bus stop brake
- Parking brake
- Air dryersingle chamber
 - with replaceable element and pressure regulator
- Oil separator
- Compressor 2-cylinder

SAFETY & ADVANCED EQUIPMENT

- AEBS (*Advanced/Autonomous Emergency Braking System*)
- BAS (*Brake Assist System*)
- ESP (*Electronic Stability Program*) including:
 - ASR (*Acceleration Slip Regulation/Anti-Slip Regulation*)
- LDWS (*Lane Departure Warning System*)
- Cruise control (Tempomat)

HEATING – VENTILATION – AIR CONDITION

HEATING:

- Passenger compartment
 - convectors
 - roof heating (via A/C)
- Driver’s compartment
 - frontbox:
 - heater mounted under driver’s control desk (front pult) which also serves for demisting/defrosting the windscreen
- Autonomous heater, pre-start heating of engine

VENTILATION:

- Natural
 - roof hatches
 - slide-windows
- Forced
 - roof air conditioner
 - frontbox

AIR CONDITION:

- Passenger compartment
 - roof air conditioner
- Driver’s compartment
 - frontbox

ELECTRICAL EQUIPMENT



- Dashboard in accordance with VDV Standard
- Battery 2 x 200 Ah / 12 V
- Generator (Alternator) 3 x 150 A
- Starter 5,5 kW
- Tachograph digital (DTCO)
- Safety switch in accordance with ECE R36
- Water cooling with level sensor, buzzer and optic signal
- Engine protection with buzzer and optic signal for too low oil pressure and too high temperature
- Headlights halogen
- Front fog lights halogen
- Rear fog lights halogen
- Reversing lights halogen
- Stop lights halogen
- End-outline lamps (front and rear) halogen
- Interior lighting LED



INTERIOR

- Passenger seats
 - luxurious, ergonomically shaped, upholstered
 - comfortable and appropriate for all traveling distances
 - typesingle and double
in accordance with seat arrangement
 - backrestadjustable
 - armrestfoldable
 - restraint system2-point and 3-point seat-belt
in accordance with seat arrangement
 - additional accessoriesoptionally, by choice
- Driver's seat
 - with air suspension and automatic weight adjustment
 - height and tiltadjustable
 - headrest and backrestadjustable
- Roller blinds for
 - windscreen
 - driver's window
- Luggage racksabove seats, open
- Luggage compartment 5 m³
- Mirrors
 - exterior rear view mirrors, heated
 - interiorfor monitoring passenger compartment
and door areas



DOORS

- Door arrangement 1-1-0
 - single-panel plug door (outward)x2
- Power operated by driver
(pneumatically, with electronic control)
- Emergency door control valvesinside/outside



GLAZING

- Windscreenlaminated, 1-piece
- Side windowssingle-glazed, tempered, bonded
- Door glassestempered, bonded

BODY STRUCTURE

- Combined steel frame tubular structure (frame/chassis)
- All cavities are protected from inside and outside
- Side panels in wheel arches area and lower side cavity
made of stainless steel
- Wheel archesstainless steel
- Side panelsaluminium
- Roof and sidewalls with thermal insulation

ADDITIONAL EQUIPMENT (ON REQUEST)

- Route and destination displays (monochrome or color):
 - Frontroute number + destination
 - Right sideroute number + destination
 - Rearroute number
 - Interiorroute number + destination
- Fire suppression system for engine compartment,
including:
 - automatic fire detection system for engine compartment
monitoring
 - automatic fire extinguishing system within the engine
compartment
- Audio-video system:
 - Audio-system + microphone
 - LCD monitor 19"x2
- CCTV
- Automatic oil level control (replenishment) system
- Central lubrication system