



TECHNICAL SPECIFICATION

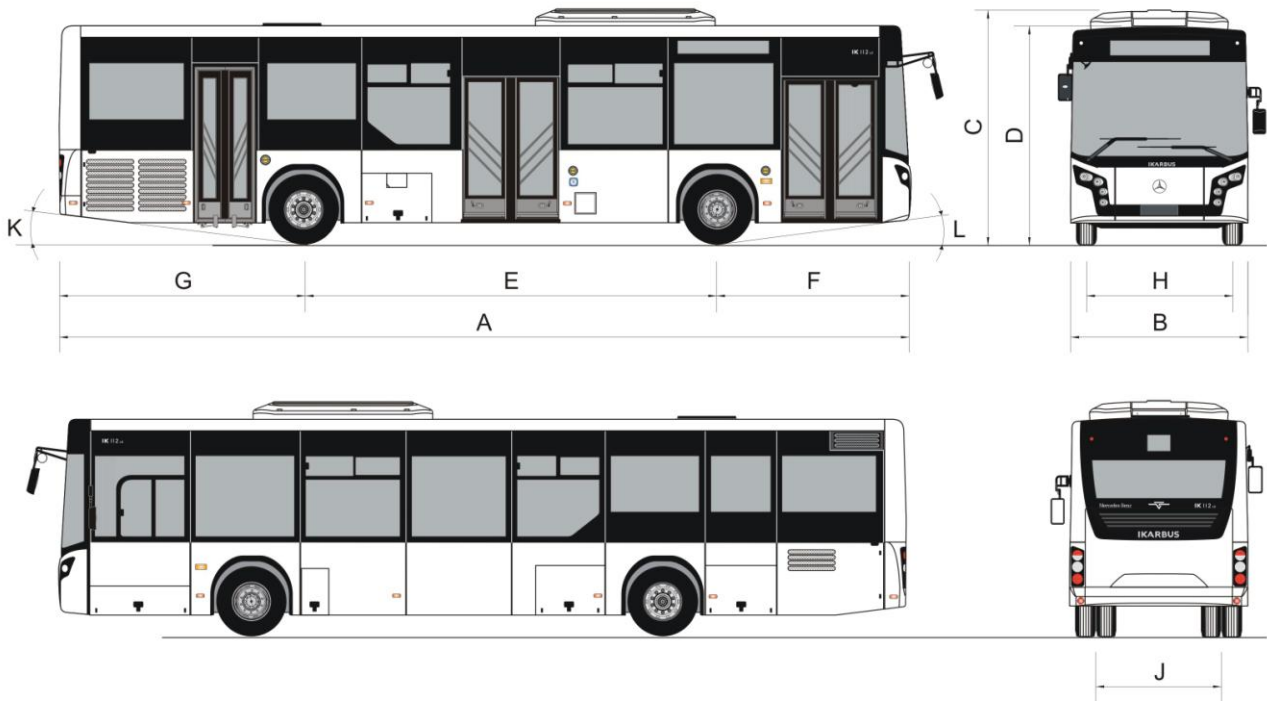
IK I I 2 LE

MB OM 457 hLA. V/11 (E5)

ZF EcoLife

2016.

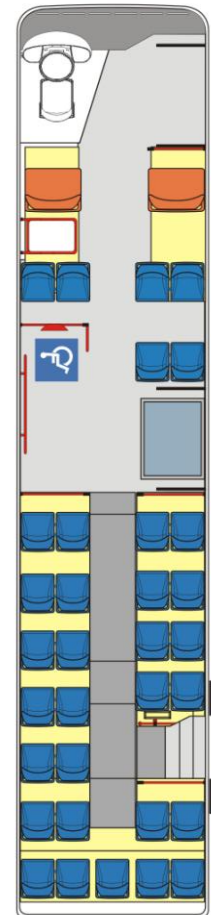
Technical specification - IK 112LE (E5)



A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	J [mm]	K [°]	L [°]
12100	2550	3300	3062	5880	2750	3470	2103	1802	7	7

Shown seats arrangement is example.

Other arrangements are possible.



Doors: 3 (2-2-2)
Seats: 33+2+1



DIMENSIONS

- (A) Length 12100 mm
- (B) Width 2550 mm
- (C) Height (including A/C) 3300 mm
- (D) Height 3062 mm
- (E/M) Wheelbase 5880 mm
- (F/G) Front/Rear overhang 2750/3470 mm
- (H/I) Front/Rear track 2103/1802 mm
- Interior height 2610 mm
- Floor height in door area 330 mm
- Minimum turning circle 22000 mm
- Approach/Departure angle 7°/7°

CHASSIS

- Mercedes-Benz OC 500LE 1830h

ENGINE

- Manufacturer Daimler AG
- Type OM 457 hLA. V/11
- Emission standard EURO 5
- Mounting horizontal, rear
- Construction 4-stroke diesel engine
6 cylinders in line, with turbo and *intercooler*
- Displacement (Swept volume) 11967 cm³
- Bore x stroke 128 x 155 mm
- Compression ratio 18,5 : 1
- Rated power 220 kW (299 hp) / 2000 min⁻¹
- Maximum torque 1250 Nm / 1100 min⁻¹
- Electronically controlled fuel injection system
 - PLN (Pump-Line-Nozzle)
 - *Common Rail*
- AdBlue

TRANSMISSION

- Gearbox automatic, ZF 6AP 1400B (EcoLife)
with integrated retarder
- Number of gears 6 + 1(R)
- Ratios 1 : 3,364 - 0,615

REAR (DRIVE) AXLE

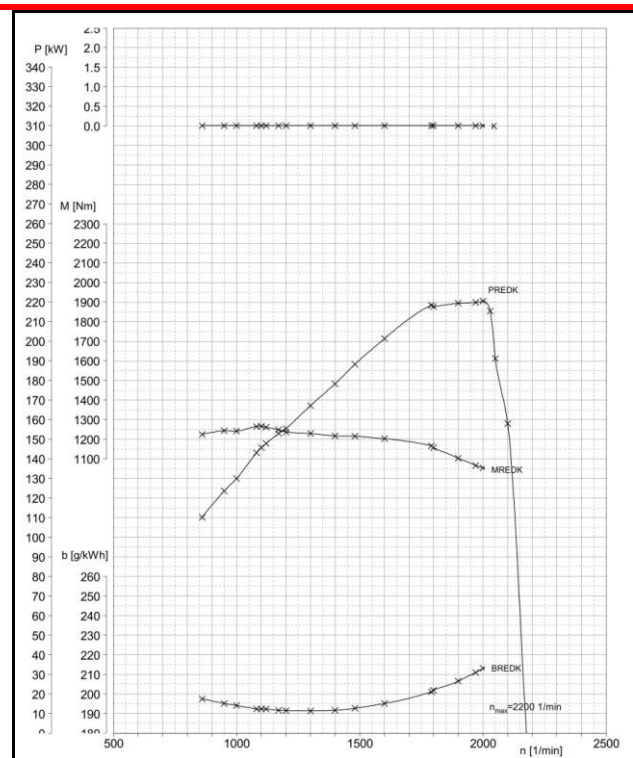
- Manufacturer Mercedes-Benz
- Type HO 6/3 DCLS-13
- Ratio 5,875

FRONT AXLE

- Manufacturer Mercedes-Benz
- Type rigid, VO 4/39 CL-7.5

AXLE LOADS

- Front axle load (Max. technically permissible) 7100 kg
- Rear axle load (Max. technically permissible) 12000 kg
- Gross vehicle weight (GVW) 17800 kg



STEERING GEAR

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



SUSPENSION

- Electronic level control system (ENR)
- Electronically Controlled Air Suspension (ECAS)
- Front axle..... 2 roller bellows and 2 double-action shock absorbers
- Rear axle..... 4 roller bellows and 4 double-action shock absorbers
- Kneeling, according to ECE R107 i 2001/85/EC

BRAKING SYSTEM

- Dual-circuit braking system, pneumatic
- Friction disc brakes (with floating brake calipers and ventilated discs) at front and rear axle
- EBS (Electronic Braking System) incorporating:
 - ABS (Anti-lock Braking System)
 - ASR-TCS (Acceleration Skid Control – Traction Control System)
- Spring parking brake
- Bus stop brake: door-operated halt-brake on the rear axle in combination with ANS/NBS
- Auxiliary brakehydrodynamic retarder
 - integrated in automatic gearbox
 - hand operated
- Air dryer..... single chamber with replaceable element and pressure regulator
- Oil separator
- Compressor 2-cylinder, 600 cm³

FUEL TANK

- Capacity 280 liters (2 x 140 liters)
- Made of stainless materials
- Filler capat right-hand side and at left-hand side

WHEELS – TYRES

- Rims.....8,25 x 22,5"
- Tyres 275/70 R22,5"



ELECTRICAL EQUIPMENT



- Dashboard..... in accordance with VDV Standard
- Battery 2 x 220 Ah / 12 V
- Generator (Alternator)..... 2 x 140 A / 28 V
- Starter 6,5 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 LED
- Reversing lights LED
- Stop lights LED
- End-outline lamps (front and rear) LED
- Interior lighting..... LED
- Doors area lighting..... halogen /LED
- Cash register lighting
- Stop indicators..... push buttons on stanchions

PASSENGERS INFORMATION SYSTEM

Option:

- Information panels:
 - Front: route number + destination
 - Right side: route number + destination
 - Rear: route number
- Information panels – color:
 - Front: route number + destination
 - Right side: route number + destination
 - Rear: route number
- Information panels (interior)
- LCD monitor 19"
- Audio-system



HEATING – VENTILATION – AIR CONDITION

- Passenger compartment heating system:
 - blower heaters
 - convector heaters
- Driver’s cab heating system:
 - heater mounted under driver’s control desk (front pult) which also serves for demisting/defrosting the windscreen
 - additional heater embedded in the cradle the driver's seat
- Liquid
- Autonomous heater, pre-start heating of engine
- Silicon rubber pipes
- Ventilation:
 - roof hatches
 - slide-windows
- Air-conditioner

Option:

- Air-conditioner with heating

INTERIOR

- Passenger seats single, plastic, vandal resistant
- Driver’s seat with air suspension and automatic weight adjustment
- Handrails powder painted steel pipes
- Roller blind for windscreen and driver’s window
- Folding ramp (wheelchair access ramp) at 2nd door, manually operated
- Heated exterior mirrors
- Interior mirrors

Option:

- Passenger seats single, plastic, vandal resistant city bus upholstered seats (easy upholstered seats)
- Folding ramp (wheelchair access ramp) at 2nd door, automatically (electrically) operated
- Central lubricating system
- Oil filling automatic system
- Automatic extinguisher system in engine compartment
- CCTV

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 arches stainless steel
- Side panels aluminium
- Roof and sidewalls with thermal insulation
- Body structure stainless steel
(Cavities: ferrite – EN 1.4003)

DOORS

- Door arrangement 2-2-2
 - 2 leaf inward swing door (Slide-Glide)
 - 1 leaf outward door
- Power operated by driver (pneumatically with electronic control)
- Emergency door control valve inside/outside

GLAZING

- Windscreen laminated, 1-piece
- Side windows single glazed, bonded
- Door glasses bonded

