TECHNICAL SPECIFICATION

IK 112 LE

MB OM 457 hLA. V/11 (E5)
ZF EcoLife
Technical specification – IK 112LE (E5)

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<td>1802</td>
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Shown seats arrangement is example.

Other arrangements are possible.
**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
- (E/G) Front/Rear overhang ..................... 2750/3470 mm
- (H/J) Front/Rear track .......................... 2103/1802 mm
- Interior height ..................................... 2610 mm
- Floor height in door area ..................... 330 mm
- Minimum turning circle ....................... 2200 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

**STEERING GEAR**

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

**FRONT AXLE**

- Manufacturer ........................................ Mercedes-Benz
- Type ............................................... rigid, V0 4/39 CL-7.5
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 brake
  - hydrometric 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 cap: at right-hand side and at left-hand side

WHEELS – TYRES

- Rims: 225 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
- 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

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

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 14003)