

MOBILITY REDEFINED



in cooperation with



e-ATAK

e-ATAK REDEFINES MOBILITY

Technology, design, comfort and many more...
All expectations change with 300 km range of e-ATAK and mobility
is redefined. Discover e-ATAK pioneering features.





MORE ENERGY MORE MOBILITY

Daily operations can easily be achieved with e-ATAK
extended range and superior technology.



Range:
Up to 300 km





ESTHETICS REDEFINED

Every city dreams of e-ATAK.
e-ATAK adapts itself to toughest city
conditions with its dynamic and compact design.



CHARACTERISTIC FRONT-DESIGN

e-ATAK promises much more than you would expect with its exterior design. Besides its charming curvy front line, its horizontal LED main and dipped beam lights and stylish day time running lamps ensure harmony with the city.





REAR DESIGN THAT LEAVES A LASTING IMPRESSION

An agile-looking design, a perfect craftsmanship...
With e-ATAK, everything you left behind will watch you with admiration. Rear LED
lights placed vertically and background details create a unique design.

DRIVING PLEASURE REDEFINED



ERGONOMIC COCKPIT WITH MODERN DESIGN

With the very first step into e-ATAK, an enchanting atmosphere welcomes you. LED ambiance lights that create a futuristic atmosphere and leather and stitch detailed steering wheel raise e-ATAK up from a public transportation vehicle. e-ATAK becomes the ambassador of the modern design concept.

e-ATAK takes the comfort to the highest level and makes its driver desire to drive longer with its spacious and ergonomic cockpit. Creating a refreshing atmosphere with its superior airflow, e-ATAK makes its driver work easier in every road condition.

WIDE ANGLE VIEW

e-ATAK wide angle of view provides total control of the road. Set the level upon road conditions or kneel while passengers get on and off the bus, with Electric Controlled Air Suspension (ECAS).

EVERY DRIVER WANTS TO OWN e-ATAK

Every detail has been taken care of in e-ATAK in order to ensure driver comfort to allow focus on the road.



COMFORT **REDEFINED**

Imagine a bus that sets comfort as the foremost priority.
And now, name it e-ATAK.

The first class comfort that e-ATAK provides
its passengers has the level of superiority that can
re-establish the dynamics of public transport.





ORIGINAL LOW FLOOR

The low-height floor which enables to get on with only half a step is the most important aspect of its comfort level. With this advantage, elders and parents with strollers can easily get on and off e-ATAK. Passengers can reach the seats that are mounted on the low floor without any extra steps after getting on the vehicle.



SPACIOUS INTERIOR

e-ATAK: Best place to daydream. With its wide leg room that increases comfort and wide window area that offers a panoramic view of the city, e-ATAK takes its passengers to a journey that they will never want to end.

POWERFUL AIR CONDITIONER & HEATER

The powerful air conditioner and heater that can handle any extreme climate, makes the passenger feel as comfortable as they are at home.

PROFITABILITY REDEFINED

With e-ATAK you also maximize the utilization of passenger capacity. This ensures more profitability for your enterprise or municipality.

How?

e-ATAK reduces operational costs during off peak hours where oversized empty buses have redundant capacity. Fulfilling both peak and off-peak capacity demand of cities, e-ATAK brings an efficient approach to public transportation.



8 mt e-ATAK | 52 Passenger Capacity



Capacity Utilization

Peak Hours
%100

Off-Peak Hours
%100



12 mt Bus | 105 Passenger Capacity

Peak Hours
%100

Off-Peak Hours
%50



52
Passenger
Capacity

TECHNOLOGY REDEFINED

FULL DIGITAL CLUSTER

You have a co-pilot in e-ATAK!

e-ATAK provides all vehicle information you need like charge status, remaining range and average consumption, through its 12.3" digital cluster. All you need to do is to enjoy a smooth ride.





KEYLESS START & STOP

Technological solutions which make life easier are in e-ATAK. With Keyless Start & Stop, drivers can easily get in the bus with keys in their pocket and simply push the Start & Stop button to activate low voltage battery powered systems.

WI-FI & USB PORTS

Time flies in e-ATAK. Stay connected at all times via Wi-Fi technology and allow your passengers charge their mobile phones with USB ports and travel at home comfort.

10.1" TOUCH SCREEN

To ensure you have a joyful journey, e-ATAK is equipped with a wide touch screen including various functions such as trip computer, tire pressure monitoring, rear camera view, air-conditioning, diagnosis, charging energy flow, multimedia and bluetooth.

Basic controls such as ECAS, lights and defroster are at your fingertips in e-ATAK to create a comfortable journey for your passengers while e-ATAK high-resolution camera views in additional 7" LCD screen ensure a safe driving experience.





100% ELECTRIC **0% EMISSION**

Thinking about the future needs cutting-edge technology. Just like the technology e-ATAK has.

e-ATAK considers the future of nature and humanity with its 100% electric motor. And its 0% emission level takes the first steps in forming a greener and cleaner city.



PERFORMANCE REDEFINED

e-ATAK, with electric motor and much stronger than diesel!

The city is full of tough conditions. e-ATAK challenges and overcomes them with its strong 230 kW electric motor. Designed to operate in all climates, e-ATAK adapts itself to every condition, no matter burning summer or freezing winter.

Doesn't matter whether the roads are steep or narrow, if you own e-ATAK you are at ease. Steep or narrow streets cannot challenge e-ATAK, you will always drive at ease.



230 kW
Max. Power



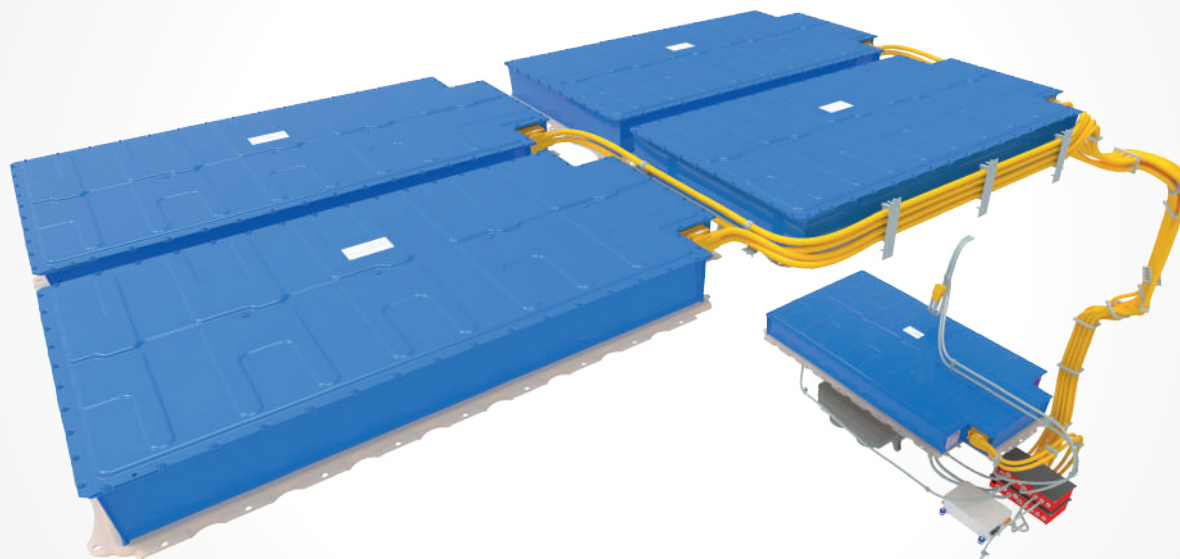
2.500 Nm
Max. Torque



Mechanic warranty is limited to 2 years of 200.00 km.
(Whichever finishes first).

BMW i. BATTERY

Proven BMW Li-Ion batteries vitalize e-ATAK. With e-ATAK, a seamless journey begins in the city from one end to the other. The driver goes on without interruption with e-ATAK unrivaled range of up to 300 km. This range enables to finish more rounds during the day without losing time charging, thus transforms the public transport with increased ease.



Capacity: 220 kWh
5 battery packs x 44 kWh



Range:
Up to 300 km

Battery warranty is limited for 4 years or 200.000 km (whichever finishes first).

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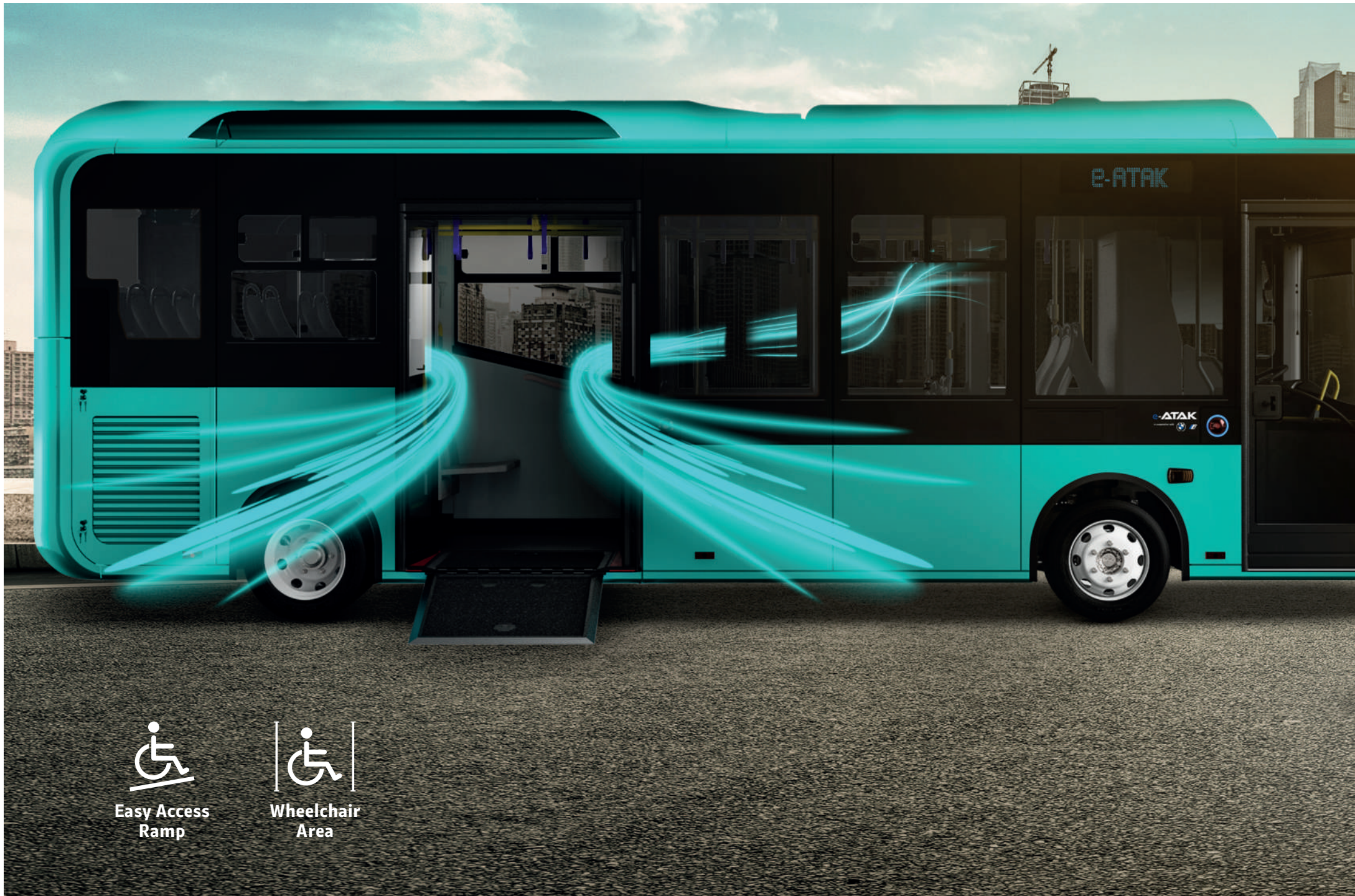


REGENERATIVE POWER

With regenerative brake system, e-ATAK can recover the kinetic energy during braking and use it to charge its batteries and extend the range. You can select one of the 2 regenerative brake modes according to preference of kinetic energy re-gain amount.

QUICK AND EASY CHARGING

e-ATAK is easily charged through the connection on front right side. e-ATAK can charge its battery in 5 hours by AC or in 3 hours by DC.



Easy Access
Ramp



Wheelchair
Area



SERVICE REDEFINED

If you have e-ATAK, you serve everyone in the best way possible. Manual ramp enables wheelchairs to get on the vehicle without any hassle. Furnished with various disabled-oriented features, e-ATAK has a wheelchair area which is designed for utmost safety during the journey. Passengers can reach the seats that are mounted on the low floor without any extra steps after getting on the vehicle.

SAFETY **REDEFINED**

e-ATAK offers technological active and passive safety systems in order to protect its valuable driver and passengers.

(EBS) ELECTRONIC
BRAKE SYSTEM

(HSA) HILL START AID
(HILL HOLDER)

(ABS) ANTI-LOCK
BRAKING SYSTEM

(FARB) FRONT ANTI
ROLL BAR

(FDS) E-MOTOR ROOM FIRE
DETECTION SYSTEM

(RGB) REVERSE GEAR
BUZZER

(RBS) REGENERATIVE
BRAKE SYSTEM

(ESP) ELECTRONIC STABILITY
PROGRAM

(ASR) ANTI-SLIPPAGE
SYSTEM



FUTURE AND URBAN TRANSPORTATION REDEFINED



e-ATAK becomes one of the most important element of the city and future you dreamed of. While world population is increasing, natural resources are diminishing day by day. The only way to handle the problems come up with this situation is through sustainable solutions. Respecting historical cities' unique texture with its zero emission level, e-ATAK is here to accompany you. With its compact design, e-ATAK complies with the dynamic of cities with narrow streets and protected historical sites. It doesn't pollute the city and the nature, on the contrary, it sustains a more liveable future.

Beyond advanced technology trends, e-ATAK provides unique solutions like low-floor and disabled ramp for the residents of the city and puts their comfort first. Becoming an essential piece of the livable city with decreasing the need of personal vehicles, it encourages usage of public transport. Moreover, with its 300 km range, e-ATAK reduces the dependency of its user to charging station and it starts a new era for urban transportation allowing to travel longer distances with only one charge in a day.

EXTEND YOUR RANGE





Range:
Up to 300 km

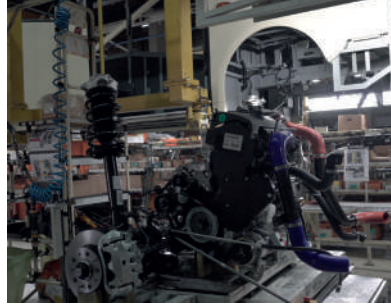
KARSAN... FROM PAST TO PRESENT

1966



Karsan's adventure began in 1966 with 269 independent entrepreneurs.

1981



In the first 15 years, it continued to work as a part supplier for Original Equipment Manufacturers (OEMs).

2006



From 1981 onwards, it began manufacturing J9 minibuses for Automobiles Peugeot. Later, it manufactured the first minivan in collaboration with Peugeot.



In 2006, Karsan manufactured J9 Premier, which was completely its own product. In the following year, it established strategic alliances with Hyundai, Renault and Citroen.

2021



Karsan expands its product range with 10-12-18 meter buses and offers a full range of electric buses.

2019



Karsan signed a 5-year contract with Oyak Renault for the production of Megane Sedan models.



Karsan introduced Autonomous e-ATAK, the first serial-production level 4 bus in Europe and America.



Karsan now manufactures e-ATAK for a sustainable future and preserve natural resources of historical cities.

TECHNICAL SPECIFICATIONS

VEHICLE TYPE

Vehicle Category & Class Low Floor Electric Bus, M3 Category, Class I, LHD

POWERTRAIN SYSTEM

Drive Type	Direct Drive
Engine	TM4 Electric Motor
Maximum Power (kW)	230
Maximum Torque (Nm)	2.500

PERFORMANCE & ELECTRIC SYSTEM

Range*	Up to 300 km
High Voltage Battery (Type - Capacity)	Li-ion 360V - 220 kWh
Charging (Type - Power - Time)	AC Type 2 - 22 kW Single - 10 h**
	AC Type 2 - 44 kW Double - 5 h**
	DC Combo 2 - 80 kW - 3 h**

BODY

Body Type	Carbon Steel: Space Frame Steel Tube Structure
Corrosion Resistance	Cataphoresis & Underbody Coating

SUSPENSION

Suspension	Air Suspension + Electronic Level Control + Kneeling
Front Axle	Independent
Rear Axle	Rigid Drive Axle

BRAKE SYSTEM

Front & Rear Brakes	Pneumatic Disc Brake System
Steering Wheel	Tilttable & Telescopic Electro Hydraulic Steering Wheel

CAPACITY

Gross Vehicle Weight (kg)	11.500
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DIMENSIONS

Overall Length (mm)	8.315
Overall Width (mm)	2.436
Overall Height (mm)	3.090
Front Overhang (mm)	2.040
Rear Overhang (mm)	1.695
Wheelbase (mm)	4.580
Standing Height (mm)	2.372
Step height, Door 1 (mm)	340 (with Kneeling) & 270 (with Kneeling)
Step height, Door 2 (mm)	340 (with Kneeling) & 270 (with Kneeling)
Approaching / Departure Angles (°)	7,8 / 8,8
Turning Radius (Kerb to Kerb) (Standard Mirrors) (mm)***	6.312

TIRES

Front Tire Sizes & Rim Sizes	245/70 R17.5 & 6.75"x J17.5" Single
Rear Tire Sizes & Rim Sizes	225/75 R17.5 & 6"x J17.5" Double

* Range may vary depending on various factors, in particular: individual driving style, route characteristics, outside temperature, heating/air conditioning, seated & standing passenger weight.

** From 0% to 80% battery capacity in ideal conditions.

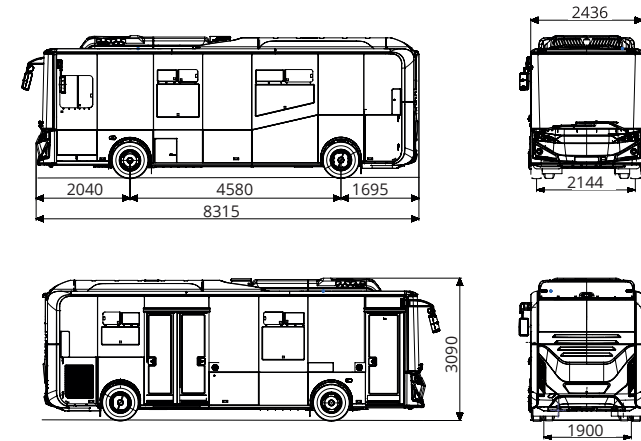
*** May change in case of using Mirror Camera option.

PASSENGER CAPACITY ALTERNATIVES



	Seated	Max. Standing	Foldable	WheelChair	Max. Total Passenger****
18+4	18	34	-	-	52
	18	28	-	1	47
	18	29	4	-	51
21+2	21	31	-	-	52
	21	25	-	1	47
	21	25	2	-	48
21+4	21	31	-	-	52
	21	25	-	1	47
	21	25	4	-	50

****Passenger capacity depends on selected optional features & wheelchair area utilization. Wheelchair is valid only when foldable seats are not being used.



EQUIPMENT FEATURES

STYLE

Exterior Design

LED Front & Rear Lights	S
LED Day Time Running Lamps	S
Front Fog Lamp	S
3 rd Stop Lamp	O
Electrical and Heated Mirrors	S
Mirror Cameras	O
5 Sliding Side Windows	S
Light Tinted Color Side Glass	S
Dark Tinted Color Side Glass	O
7 Sliding Side Windows ¹	O
Heated Windscreen	S
Sliding Heated Driver's Window	S
Heated Front Door Window	S
Monocolor LED Destination (Front + Side + Rear)	S
Front & Rear 17.5" Steel Wheels	S
Wheel Covers	S
Cataphoresis & Underbody Coating	S
Spare Tire	O
Standard Body Color: White	S
Optional Body Colors: (Opac Colors)	O

Interior Design

Anti-Slip PVC Floor Cover, Green Patterned	S
Handrail Tubes, Stainless Steel	S
Handgrips	S
Stop Signs + Digital Clock + Temperature Indicator	S
Billboard ²	O
Outdoor Billboard (Right & Left Side)	O

TECHNOLOGY

Charging Infrastructure

Single On-Board Charger	S
Double On-Board Chargers	O

Driver Compartment

12" Full Digital Cluster	S
Rear Park Sensors	S
Ticket Validator Preparation (Front)	S
Smart Tachograph	O
2 x Driver Area Speakers	S
Manuel Locking System	S
Start & Stop Button (Keyless)	S
External Speaker	O
Coat Hook	S
FMS Gateway	S

Audio & Video Systems

Radio + USB Port + Bluetooth Connections	S
Announcement System for Passenger Area - 5 x Passenger Speakers + Goose Neck Microphone + Amplifier	O
10.1" Multimedia Touchscreen	S
Rear Camera	S
Wi-Fi Router	O
Roof Mounted Fixed 19" LCD Screen with USB	O
DVR (1 TB) ; Front, Driver, Inside, Service Door Cameras (Touchscreen Integrated)	O
DVR (1 TB) ; Front, Driver, Inside, Service Door Cameras (7" LCD Screen Integrated)	O

COMFORT

Cooling & Heating

Passenger A/C with Heating Function	S
Driver A/C with Heating Function	S
Passenger Area Heater 12 kW	S
Passenger Sidewall Heater	S
Pre-heater ³	O

Driver Compartment

8-Way Pneumatic Driver Seat with 3-Point Seat Belt (ISRI)	S
Driver Seat with Heating Function	O
Isolated Cabin (Rear as Glass)	S
Seperated Driver Cabin with High Glass	O
Driver Side Window Manual Sun Visor	O
Front Manual Sun Visor	S
Alcoholmeter Preparation	O

Passenger Area

Plastic Type Passenger Seats	S
Plastic Type Passenger Seats (with Pad & Fabric)	O
Shuttle Type Passenger Seats (Seat Back Plastic)	O
Backrest Totem and Wheelchair Designations	S
Manual Wheelchair Access Ramp	S
USB on Sidewalls	S
Door Compress Prevention	S

SAFETY

ESP - Electronic Stability Program	S
EBS - Electronic Brake System	S
ABS - Anti-Lock Braking System	S
ASR - Anti-Slippage System	S
RBS - Regenerative Brake System	S
HSA - Hill Start Aid	S
Front Anti Roll Bar	S
E-Motor Room Fire Detection System	S
Fire Supression System ³	O
Reverse Gear Buzzer	S

S : Standard O : Option

¹ 7 Sliding Side Windows can be selected with Dark Tinted Color Side Glass.

² Only without Rear (Cabin) Separation Window.

³ Options can not be selected separately from each other. Pre-heather with standard heating system.

Authorized Dealer