MOBILITY REDEFINED















MORE ENERGY MORE MOBILITY

Daily operations can easily be achieved with Atak Electric's extended range and superior technology.





ESTHETICS REDEFINED

Every city dreams of Atak Electric. Atak Electric adapts itself to toughest city conditions with its dynamic and compact design.





DRIVING PLEASURE REDEFINED



ERGONOMIC COCKPIT WITH MODERN DESIGN

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

Atak Electric 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, Atak Electric makes its driver work easier in every road condition.

WIDE ANGLE VIEW

Atak Electric's 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).

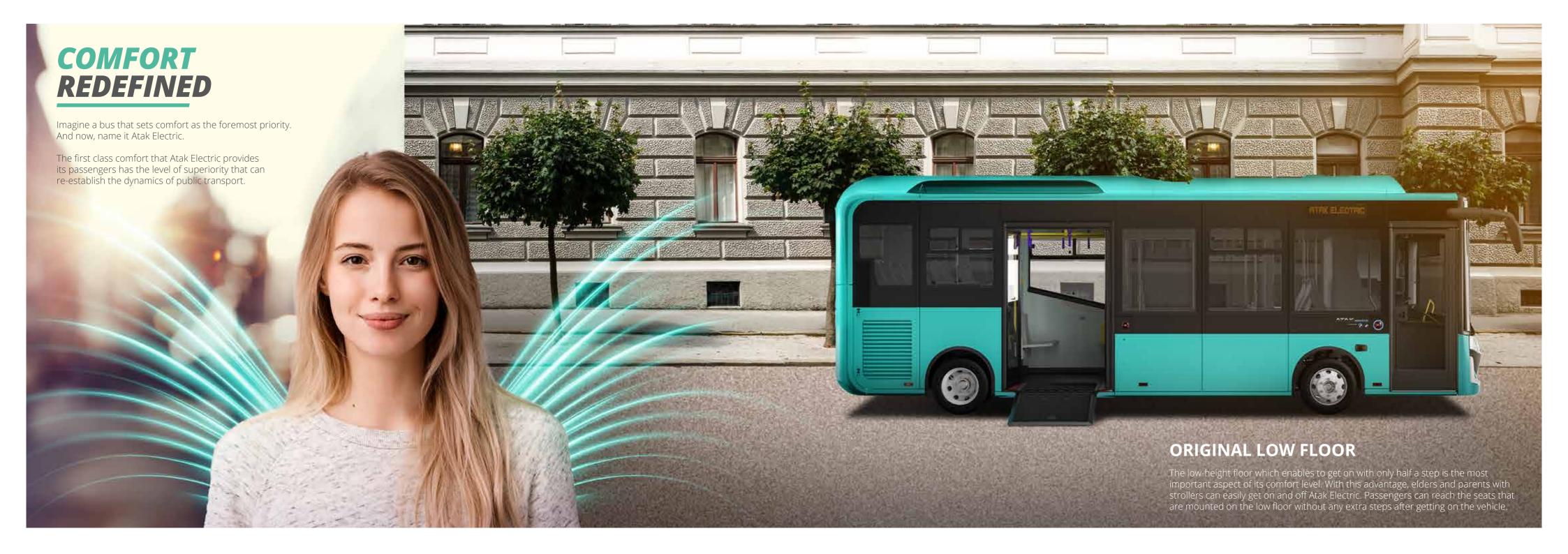
EVERY DRIVER WANTS TO OWN ATAK ELECTRIC

Every detail has been taken care of in Atak Electric in order to ensure driver comfort to allow focus on the road.











SPACIOUS INTERIOR

Atak Electric: Best place to daydream. With its wide leg room that increases comfort and wide window area that offers a panoramic view of the city, Atak Electric 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 Atak Electric you also maximize the utilization of passenger capacity. This ensures more profitability for your enterprise or municipality.

low?

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



8 mt Atak Electric | 52 Passenger Capacity



12 mt Bus | 105 Passenger Capacity



Peak Hours **%100**

Off-Peak Hours **%100**

Peak Hours **%100**

Off-Peak Hours

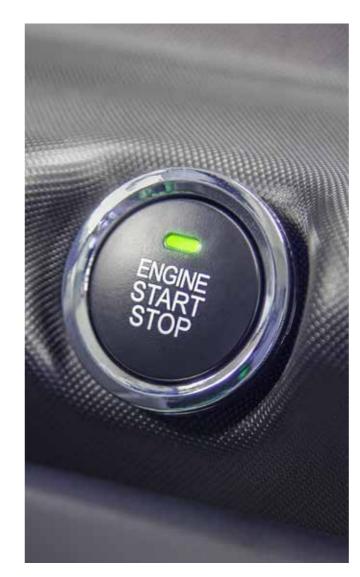


TECHNOLOGY REDEFINED

FULL DIGITAL CLUSTER

You have a co-pilot in Atak Electric! Atak Electric provides all vehicle information you need like charge status, remaining range and average consuption, 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 Atak Electric. 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 Atak Electric. 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, Atak Electric 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 Atak Electric to create a comfortable journey for your passengers while Atak Electric's high-resolution camera views in additional 7" LCD screen* ensure a safe driving experience.

*Available beginning from May 2020



100% ELECTRIC 0% EMISSION

Thinking about the future needs cutting-edge technology. Just like the technology Atak Electric has.

Atak Electric 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

Atak Electric, with electric motor and much stronger than diesel!

The city is full of tough conditions. Atak Electric challenges and overcomes them with its strong 230 kW electric motor. Designed to operate in all climates, Atak Electric 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 Atak Electric you are at ease. Steep or narrow streets cannot challenge Atak Electric, you will always drive at ease.









2.500 Nm Max. Torque



BMW i. BATTERY

Proven BMW Li-Ion batteries vitalize Atak Electric. With Atak Electric, a seamless journey begins in the city from one end to the other. The driver goes on without interruption with Atak Electric's 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.















REGENERATIVE POWER

With regenerative brake system, Atak Electric 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

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



SERVICE REDEFINED

If you have Atak Electric, 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, Atak Electric 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

Atak Electric offers technological active and passive safety systems in order to protect its valuable driver and passengers.









E-MOTOR ROOM FIRE DETECTION SYSTEM





ESP ELECTRONIC STABILITY
PROGRAM







Atak Electric 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, Atak Electric is here to accompany you. With its compact design, Atak Electric 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, Atak Electric 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 encouraces usage of public transport. Moreover, with its 300 km range, Atak Electric 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.



KARSAN... FROM PAST TO PRESENT

______ 1966 ______ 2009 ______ 2011



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



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



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.



In line with its vision updated in 2009 as "Limitless Transportation Solutions", Karsan developed the V1 project in response to New York's Taxi of Tomorrow tender.



Starting to manufacture buses in 2011, Karsan manufactured the first big bus for Rome Municipality.

2019

2018



Karsan now manufactures Atak Electric for a sustainable future and preserve natural resources of historical cities.



Karsan's first electric vehicle Jest Electric, which is electrified by BMW i, was launched in Munich, in cooperation with BMW.



Karsan's factory, located in Hasanağa, Bursa, Turkey, having 90.000 m² of indoor space on a total area of 200.000 m², has a capacity of manufacturing 65.000 vehicles/year. Today, in its modern facilities Karsan has been producing for more than 50 years for the world's leading brands and its own brand.



Recently, Karsan became one of the 6 finalists in the prototype design contest for a next generation delivery vehicle that will replace 180,000 vehicles currently available at US Postal Service. Additionally, it established a strategic partnership with Morgan Olson, a leader in business transportation.



2017

Jest+ was relaunched with an esthetic look and enhanced features.



2013

In 2013, it re-developed its product portfolio with its own vehicles, namely Jest, Atak and Star. Furthermore, it has entered into new agreements with leading companies such as Hyundai, Industry Italiana Autobus and Bozankaya.

TECHNICAL SPECIFICATIONS

| VEHICLE TYPE | La FlancFlantis Da Ma Cara de La La Cara | | |
|--|--|--|--|
| 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 | | | |
| Turning Radius (Kerb to Kerb) (mm) | 6.312 | | |
| Range* | Up to 300 km | | |
| High Voltage Battery (Type - Capacity) | Li-ion 360V - 220 kWh | | |
| | AC Type 2 - 22 kW Single – 10 h** | | |
| Charging (Type - Power - Time) | 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 | Tiltable & Telescopic Electro Hydraulic Steering Wheel | | |
| CAPACITY | | | |
| Gross vehicle weight (kg) | 11.000 | | |
| 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) | 2.370 | | |
| Step height, Door 1 (mm) | 340 (with Kneeling) & 270 (with Kneeling) | | |
| Step height, Door 1 (mm) | 340 (with Kneeling) & 270 (with Kneeling) | | |
| | | | |
| Approaching / Departure Angles (°) TIRES | 7,8 / 8,8 | | |
| | 24E /70 D17 E 0 6 7E% /17 F# 6: | | |
| Front Tire Sizes & Rim Sizes | 245/70 R17.5 & 6.75"x J17.5" Single | | |

PASSENGER CAPACITY ALTERNATIVES





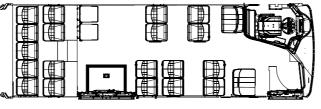




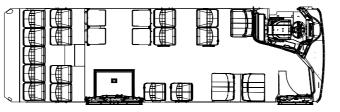


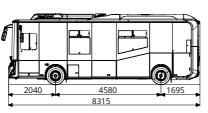
| | Seated | Max. Standing | Foldable | WheelChair | Max. Total Passenger*** |
|------|--------|---------------|----------|--------------|-------------------------|
| | Seateu | wax. Stanuing | roluable | Wileciciiali | wax. Total Passelige |
| 18+4 | 18 | 34 | - | - | 52 |
| | 18 | 28 | - | 1 | 47 |
| | 18 | 29 | 4 | - | 51 |
| 21+2 | 21 | 31 | - | - | 52 |
| | 21 | 25 | - | 1 | 47 |
| | 21 | 25 | 2 | - | 48 |

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



21+2











EQUIPMENT FEATURES

FMS Gateway

| TYLE | |
|--|--------|
| exterior Design | |
| ED Front & Rear Lights | S |
| ED Day Time Running Lamps | S |
| ront Fog Lamp | S |
| ord Stop Lamp | 0 |
| lectrical and Heated Mirrors | S |
| Sliding Side Windows | S |
| ight Tinted Color Side Glass | S |
| Oark Tinted Color Side Glass | 0 |
| Sliding Side Windows*** | 0 |
| Heated Windscreen | S |
| liding Heated Driver's Window | S |
| Heated Front Door Window | S |
| Monocolor LED Destination (Front + Side + Rear) | S |
| ront & Rear 17.5" Steel Wheels | S |
| Vheel Covers | S |
| Cataphoresis & Underbody Coating | S |
| pare Tire | 0 |
| standard Body Color: White | S |
| Optional Body Colors: (Opac Colors) | 0 |
| nterior Design | |
| anti-Slip PVC Floor Cover, Green Patterned | S |
| Handrail Tubes, Stainless Steel | S |
| Handrail Tubes, Green | 0 |
| Handgrips | S |
| itop Signs + Digital Clock + Temperature Indicator | S |
| illboard | 0 |
| TECHNOLOGY | |
| | |
| Charging Infrastructure | |
| ouble On-Board Charger Ouble On-Board Chargers | S O |
| Driver Compartment | O |
| • | |
| 2" Full Digital Cluster | S |
| Rear Park Sensors | S |
| icket Validator Preparation (Front) | S |
| imart Tachograph | 0 |
| x Driver Area Speakers | S |
| Manuel Locking System | S |
| itart & Stop Button (Keyless) | S |
| xternal Speaker | 0 |
| Coat Hook | S |

| adio + USB Port + Bluetooth Connections (on Touchscreen) nnouncement System for Passenger Area 0.1" Multimedia Touchscreen ear Camera ii-Fi Router oof Mounted Fixed 19" LCD Screen with USB VR (1 TB); Front, Driver, Inside, Service Door Cameras (Touchscreen Integrated) | S LP S LP |
|--|-----------|
| .1" Multimedia Touchscreen ar Camera -Fi Router of Mounted Fixed 19" LCD Screen with USB (R (1 TB); Front, Driver, Inside, Service Door Cameras (Touchscreen Integrated) | S S |
| ear Camera ri-Fi Router pof Mounted Fixed 19" LCD Screen with USB VR (1 TB); Front, Driver, Inside, Service Door Cameras (Touchscreen Integrated) | S |
| ri-Fi Router pof Mounted Fixed 19" LCD Screen with USB VR (1 TB); Front, Driver, Inside, Service Door Cameras (Touchscreen Integrated) | |
| oof Mounted Fixed 19" LCD Screen with USB VR (1 TB) ; Front, Driver, Inside, Service Door Cameras (Touchscreen Integrated) | LP |
| VR (1 TB); Front, Driver, Inside, Service Door Cameras (Touchscreen Integrated) | |
| • | LP |
| (D (4 TD) - F D | SP1 |
| VR (1 TB); Front, Driver, Inside, Service Door Cameras (7" LCD Screen Integrated) | SP2 |
| OMFORT | |
| poling & Heating | |
| assenger A/C with Heating Function | S |
| river A/C with Heating Function | S |
| assenger Area Heater 12 kW | S |
| assenger Sidewall Heater | S |
| river Compartment | |
| Way Pneumatic Driver Seat with 3-Point Seat Belt (ISRİ) | S |
| olated Cabin (Rear as Glass) | S |
| ıll Separated Driver Cabin | 0 |
| river Side Window Manual Sun Visor | 0 |
| ont Manual Sun Visor | S |
| assenger Area | |
| astic Type Passenger Seats | S |
| astic Type Passenger Seats (with Pad) | 0 |
| ackrest Totem and Wheelchair Designations | S |
| anual Wheelchair Access Ramp | S |
| SB on Sidewalls | S |
| x Passenger Area Speakers | LP |
| oor Compress Prevention | S |
| AFETY | |
| SP - Electronic Stability Program | S |
| 3S - Electronic Brake System | S |
| BS - Anti-Lock Braking System | S |
| SR - Anti-Slippage System | S |
| SS - Regenerative Brake System | S |
| SA - Hill Start Aid | S |
| ront Anti Roll Bar | S |
| | S |

Reverse Gear Buzzer

^{*} 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.

S: Standard O: Option

LP: Luxury Pack SP1:Surveillance Pack 1 SP2:Surveillance Pack 2

SP1 & SP2 can't be selected together.

Monitoring will be from Touchscreen in SP1 and from 7" LCD in SP2

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

Authorized Dealer

