



ULTRA TROLLEYBUS TB12



ERGONOMIC URBAN TRANSPORT

The newest **ULTRA TB12** trolleybus is designed for stable routes with active passenger traffic.

The trolleybus is environmentally friendly and economical in comparison with diesel engines.

A distinctive feature of this model is the ability to travel up to 40 km without consuming electricity from catenary.






The low floor, the presence of a ramp and body tilting system provides a comfortable use of transport for all categories of passengers.



ULTRA TROLLEYBUS TB12

TECHNICAL SPECIFICATIONS AKIA ULTRA TB12

VEHICLE TYPE	
Vehicle Category & Class	Low Floor Bus, M3 Category, Class I, LHD
BODY	
Body Type	Steel Monocoque Structure
Corrosion Resistance	Coated Fullbody
DIMENSIONS	
Overall Length (mm)	12.000
Overall Width (mm)	2.550
Overall Height (mm)	3.700
POWERTRAIN SYSTEM	
Drive Type	Rear Wheel Drive (RWD), 4x2
Engine Layout	Rear Traction Motor Longitudinal Mounted
Traction Motor	TSA TMF-37-21-4
Type	IGBT Technology, Asynchronous
Power (kW)	160 Kw
Energy Recuperation	Standard
CURRENT COLLECTOR SYSTEM	
Type	Automatic Pantograph
Traction Network Voltage	600 V DC
SUSPENSION SYSTEM	
Suspension	Air Suspension + Kneeling System
Front Axle	Rigid Type
Front Axle Suspension	2 units Folding Tags, 2 units Shock Absorber, 1 unit Stabilizer
Type	Rigid Type
Rear Axle Suspension	4 units Folding Tags, 4 units Shock Absorber, 1 unit Stabilizer

BRAKE SYSTEM				
Front & Rear Brakes	Electro Pneumatic Brake System (Disc Brakes)			
System	Knorr Bremse ABS, ASR			
Service Brake	Full Air Brake System, Dual Circuit, Electronical actuated			
STEERING SYSTEM				
Steering System	Electro-Hydraulic Power Steering			
ENERGY STORAGE SYSTEM				
Battery Type	NMC			
Capacity	54 kWh			
Charging System	Plug in			
Operational service without catenary	>40 km			
TYRES				
Front Tire Sizes & Rim Sizes	275/70 R 22,5 – 8,25 x 22,5 Single			
Rear Tire Sizes & Rim Sizes	275/70 R 22,5 – 8,25 x 22,5 Double			
ELECTRICAL SYSTEM				
Electric System	Can Bus Based System			
Battery (Volt & Ah)	2x12V - 200 Ah			
INSULATION MONITORING SYSTEM				
Type	Double Insulation			
PASSENGER CAPACITY				
Seated	Standee	Wheelchair	Folding Seats	Total Passenger
				
37	60	-	-	97
37	52	1	-	90
EQUIPMENT FEATURES				
EXTERIOR DESIGN				
Number of Service Doors	3 Doors			
Type of Service Doors	Double Wings, Pneumatic, Inward Swing			
Remote Controlled Door System	Standard			

Side View Mirrors	Electric Controlled Heated
Windshield	Laminated, Sticked Glass
Driver's Side Window	Sliding Type Standard with Heated
LED Destination Signs	Monocolor (Front + Side + Rear)
Passenger Windows	Tempered, Sticked Glass
Paint	Acrylic Kiln-dried Paint
INTERIOR DESIGN	
Anti-slip PVC Floor Cover	Standard
Handrail Tubes	Steel
Passenger Seats	Standard Plastic Type with Cushion
Manual Wheelchair Access Ramp	Standard
Partitions	Standard
Stop Request Buttons	Standard
Camera Surveillance System	Cameras with DVR
Passenger Information Display	2 Units
DRIVER COMPARTMENT	
Driver Seat	Pneumatic Driver Seat With 3 Point Seat Belt
Full Separated Driver Cabin	Standard
Steering Column and Instrument Panel	Height and Tilt Adjustment
Windshield Roller Blind	Manual Type
Camera Monitor	Standard
CLIMATIZATION SYSTEM	
Passenger Air Conditioner	Standard Type
Passenger Heater	Standard Type
Driver Cabin Heater	Front Box Type
ADDITIONAL SYSTEMS	
Automatic Fire Detection System	Standard
USB Chargers	Standard
FM Radio with USB Player	Standard
Safety Hammer	Standard
Circuit Separator on Battery	Standard
Fire Extinguisher	1 unit 6 kg.
First Aid Kit	Standard
Spare Wheel	Standard
Warning Triangle	Standard
Driver's set of tools	Standard
Hydraulic Jack	1 Unit Portable

*AKIA A/ESTO reserves the right to make changes in accordance with technical progress and to change product specifications without prior notice!