

### Zero emissions 100% Electric







## ABOUT AIR RAIL

- Since 1992, we operate the complete equipment cycle in the Airport industry, offering our clients a comprehensive range of solutions, such as: GSE Renting, Equipment Distribution, Full Technical Service, Second Hand Trading, Spare Parts, Pooling, Overhaul and Fleet Consultancy.
- We currently have over 70 rented apron buses, having distributed c. 160 in the European region. Therefore, our knowledge and experience in the apron bus market has taken us to partner with Yutong, who offers the best technology commiting with sustainability and efficiency.

## ABOUT YUTONG

- As the biggest bus manufacturer in the world, with over 68.000 units manufactured in 2018 and a market share of near 10% of world bus production, Yutong Bus Co., located in Zhengzhou, has four factories with over 2.46 million sq.m. and a daily production capacity of 400 units.
- They have 12 logistic distribution areas worldwide and 350 tecnical services areas, in more than 130 countries.
- They entered the airport passenger transport industry in 2008, having distributed over 600 units (+250 in 2018-2019), of which more than 85 are electric, their great commitment to the future, partnering with Air Rail.

## E-BUS ZK6140BEVBD

- 2 battery options: 229 Kwh or 281 Kwh.
- 100% electric engine and AC
- Zero emissions (CO<sup>2</sup>)
- Internal vibration and noise reduction
- · Maintenance and operational cost reduction
- Energy cost reduction
- More available space with the same lenght
- Full recharge in 2 / 2.5 hours

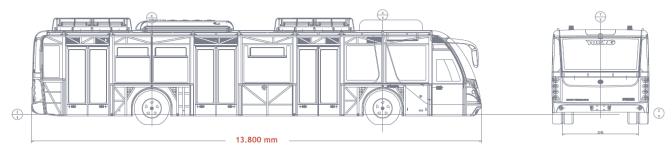




# TECHNICAL SPECIFICATIONS (I)









#### GENERAL DIMENSIONS

Length	13.800 mm
Width	3.000 mm
Height	
Interior Height	2.450 mm
Floor Height	350 mm / 300 mm on kneeling
Wheel base	7.100 mm
Front / Rear overhang	3.000 mm / 3.700 mm
Net Weight	13.500 kg
Max. Weight	21.290 kg
Max. Speed	50 km/h
Turning Radio	<13.5°

#### ELECTRIC ENGINE

Model	13.800 mm
Battery Capacity	CATL, 229 or 281 Kwh. IP64.
New energy System	Yutong RECTRL Full Electric System
Energy Storage Syste	m Lithium Iron Battery (more capacity, power and safety)
Driving range	220 / 270 kms
Charging method	Charging guns
Charging time	20 Kw charger, < than 2.5 hours. Quick charge in 6 min (50 km).
Energy	100% electric

#### CHASSIS

Axles	Front steering drive axle / Rear supporting axle	
Transmission	Automatic	
Suspension system	Air suspension, with ECAS kneeling system (both sides)	
Braking System	Dual circuit pneumatic service brake, front & rear drum brake,	

# TECHNICAL SPECIFICATIONS (II)

#### STEEL BODY

Structure	Reinforced Integral body, all metal panel, one step
Anti-Corrosion Te	<b>chnology</b> Cathode electrocoating treatment for body and chassis.
Doors	middle & rear pneumatic out-swing doors with anti-pinch system
Windows	Light grey windows, Integral windshield. Anti-breakage
Seats	<u>8+1+1/8+2+1. Customizable.</u>
Capacity	110 pax
AC System	Separate electric engine. Yutong manufacture. 56,000 kcal/h
Cameras	Internal cameras (pax. Cabin + driver). Electronic rear view mirror
Lights	Separate head lamp, tail lamp, LED brake lights, warning lights
Other equipment	automatic fire bombs for engine compartment, wheelchair ramp, safety hammer with wires, engine waste heat defrost, water heating defrost

#### 281 KwH BATTERY PACK

Type of Battery Lithi	um Iron Phosphate (more efficient, durable and safer)
Rated Capacity	456 Ah
Rated Voltage	618.24 V
Working Voltage Range	480 V~700.8 V
Charging Current	456 A
Ingress Protection	IP68
Driving range with lights on (constant pace at 20 km/h with 6.000 kg payload and AC on)	1 full day operation with 100% charge and AC ON (+12 /14 hours without stopping)
Battery management	4,000 cycles with one full charge per day (from 0%)
Battery cells	8 pack
Number of cells	192

#### 160/120 KwH SUPER CHARGERS

Rated Power	160 KwH / 120 KwH
Input Voltage	400 VAC +- 15%
Input Current	200 A
AC Grid frequency	50 HZ+- 15%
Output Voltage	300-750 VDC
Charging guns	4 (max 2 working at same time) / 2
Charging time	< 2.3 hours standard - Quick 6 min for 50 km run / 2.7 hours
Max. Output Current	200 A (single chargin gun)
Average efficiency	>-94%
Power factor	>-0.99
IP Grade	IP54
Temperature Range	from - 30º to 50º

# PHOTOS (I)

#### Exterior



# PHOTOS (II)

Interior





# We make it possible



# Air Rail

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