Economic Benefits Shenzhen Case

Energy Saving		CO_2 Tailpipe Emission Elimination
K9	One K9 Saving 128,428 USD in 5 and a quarter Years	Diesel Bus
130 kWh①	Energy Consumption / 100 km	40L
0.13/kWh	Energy Price（USD）	1.25/L
16.9	Cost/100 km	50
388,000	Highest Mileage（km）②	388,000
65,572	Total Cost (USD)	194,000

The data collected was based on the highest single mileage of the K9 bus in Shenzhen from January 2011 to March 2017.

Note: Calculation Based on Shenzhen Energy Price.

① Due to changes in road conditions and driving habits, the actual date may be different with ECE data.
② The above operational information collected from ShenZhen real data Jan. 2011 - Mar. 2017.

Safety

Intelligent Battery Management System (iBMS) assists with balancing and charging safety, helping produce the safest battery on the road.

Saving

Energy consumption amounts 1.3 kWh/km (assuming 0.18 USD/km) while eliminating usual service costs associated with diesel, CNG and hybrid alternatives.

Comfort

A quiet ride with zero emission is an ideal choice for rejuvenating energy along the road of green journey.

Eco

Produce ZERO emissions, eliminates the need for particulate traps, and makes oil changes and other polluting consumables a thing of the past.

Longevity

Battery life is above 4,000 cycles; no need for battery replacement under normal use.

Longest Range

The industry leading driving range 250+ kilometers per charge.

K9 SPECS

Dimensions		
Length/Width/Height	12,000 mm / 2,500 mm / 3,400 mm	
Wheelbase	6,100 mm	
Curb Weight	13,100 kg	
Gross Weight	18,000 kg	
Seats	Up to 35	
Wheelchair Area	1	
Performance		
Top Speed	70 km / h	70 km / h
Max Gradeability	≥20%	≥15%
Min Ground Clearance	140 mm	140 mm
Range①	≥250 km	≥250 km
Turning Radius	≤12m	≤12m
Approach / Departure Angle	7.5°/7.5°	7.5°/7.5°
Chassis		
Suspension	Air Suspension (ECAS system)	
Brakes	Front & Rear disc, ABS, Regenerative Braking	
Tires	275/70R 22.5	
Motor		
Motor Type	AC Synchronous Motor	
Max. Power	300 kW (150 kW×2)	180 kW (90 kW×2)
Max. Torque	1,100 Nm (550 Nm×2)	800 Nm (400 Nm×2)
Battery		
Battery Type	BYD Iron-Phosphate Battery	
Battery Capacity ②	324 kWh	
Charging		
AC Charging	80 kW（40 kW×2）	
Charging Time ③	4-5 h	

NOTICE:
The above specifications are for the standard vehicle. It is subject to regional needs and regulations.
Specs updated: June 2017.
① Test standard GB/T 19754: actual range will vary depending upon driving/charging habits, speed, conditions, weather, temperature, and battery age.
② The battery capacity is initial capacity. It will decrease with time and use.
③ The battery age and outside ambient temperature both play a role in charging times.

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K9

THE WORLD'S FIRST
LONG-RANGE 12M
BATTERY-ELECTRIC BUS

0 EMISSION PURE ELECTRIC

Reliable-Business Case Example

Shenzhen Case

The Earliest All-Electric Bus Fleet

- Started: Jan. 2011
- Fleet: 780 Electric Buses
- Total Mileage: Over 154 Million km
- Single Mileage: Over 388,000 km
- Battery: Long Cycle Life (Above 4,000 cycles)
- As of Mar, 2017

World-Leading Technologies

- Being one of the leading rechargeable battery manufacturers in the global arena, BYD is the only organization that majors in battery, electric motor and electronic control system.

1

Dual In-wheel Motor Solution
BYD's Dual In-wheel Motor Solution with integrated regenerative braking recovers 30% of lost braking energy and you get a quiet comfortable ride.

2

Electronic Control Technology
Reliable and proven CAN bus communication, together with the whole vehicle intelligent manage-ment and diagnostic system, has greatly saved the wiring space and makes your maintenance much more easier.

3

High Power Charging Technology
High power AC charging allows full charging from 0-100% SOC within 4-5 hours; no dependence on commercial charging stations; great savings on charging station investment & maintenance.

4

Battery
Billions of investment in the research, development and manufacturing of the Iron-Phosphate Battery on which we have performed numerous full-scale tests to ensure the highest possible safety and reliability. The Iron-Phosphate battery has been proven and widely used on our electric taxis and buses.

BYD ELECTRIC VEHICLE CHARGING SOLUTIONS

BYD charging points are small and easy to fit. As they don't require a special station, they can be easily placed anywhere a vehicle would be parked, such as home, work, shopping centres and public car parks.

BYD AC Charging Adapter	
Charging Mode	**AC Charging**
Input voltage	Three phase AC 380 V / 400 V
Input current	≤126 A
Intput power	≤80 kW
Physics	
Length/width/height	690 mm/400 mm/200 mm
Net weight	30 kg
Length of the cable	3 m
Install form	Wall-mounted
Safety	
Protect function	Short circuit protection/Over-temperature protection/ Lightning protection
Housing protection level	IP55

BYD ELECTRIC BUS GLOBAL FOOTPRINTS

6 CONTINENTS

>60 COUNTRIES & REGIONS

>400 CITIES

BYD Electric Bus on the Road-Exciting Moments

USA
Tendered with electric bus orders from distinguished American transit companies and universities like LA Metro, Long Beach Transit, Facebook, AVTA, Stanford University etc.

MALAYSIA
In June,2015, BYD Delivers 15 Electric Buses for World's First Battery Electrified BRT in Kuala Lumpur, Malaysia, witnessed and test-ridden by Malaysian Prime Minister Najib Razak.

JAPAN
On Feb. 25, 2015, 5 units of BYD electric buses were put into operation in the former Japanese capital Kyoto. BYD became the first Chinese auto company to enter the Japanese market.

UNITED KINGDOM
In Dec. 2015, the world's 1st full-electric double-decker bus was launched in London witnessed by Duke and Duchess of Cambridge and China's President Xi Jingping.

BRAZIL
In July, 2015, BYD do Brasil and the administration of the city of Campinas - a city in the interior of the state of São Paulo - announced the addition of 10 battery electric buses to its public transport fleet. The city is the first in Brazil to have zero emission buses to serve the public.

TAIWAN
The good driving habits in Taiwan often made the BYD K9 far exceed the specied driving range of 250 km per charge. BYD electric transit buses are now running all around the island including Taipei, Taichung, Tainan.