

BUS SPECIFICATIONS: Specifications subject to change and are customizable.

Length	30' / 35' / 40'
Width	102"
Height	120"
Wheelbase	130" / 190" / 250"
Overhang	140" / Rear 126"
Tire Size	305 / 70R22.5
GWWR	Max 39,700 lbs
Charge System	Ultra Capacitor
Suspension	Arvin Meritor F&R Air Suspension-6 chamber
Axles	Arvin Meritor F&R-5.63 rear ratio
Brake System	WABCO-F&R Disc ABS
ECAS	WABCO
Air Conditioning	Trans Air
Kneeling	Standard
Wheelchair Ramp	Automatic / Manual

CHARGING STATION: Transformer dimensions.

Length	59.1"
Width	35.4"
Height	86.6"
Input Voltage	AC 380V
Output Voltage	DC 650V ± 30V
Location	Above or under ground



**FOTON AMERICA**  
The Future Rides On Foton.  
Foton America Bus Company



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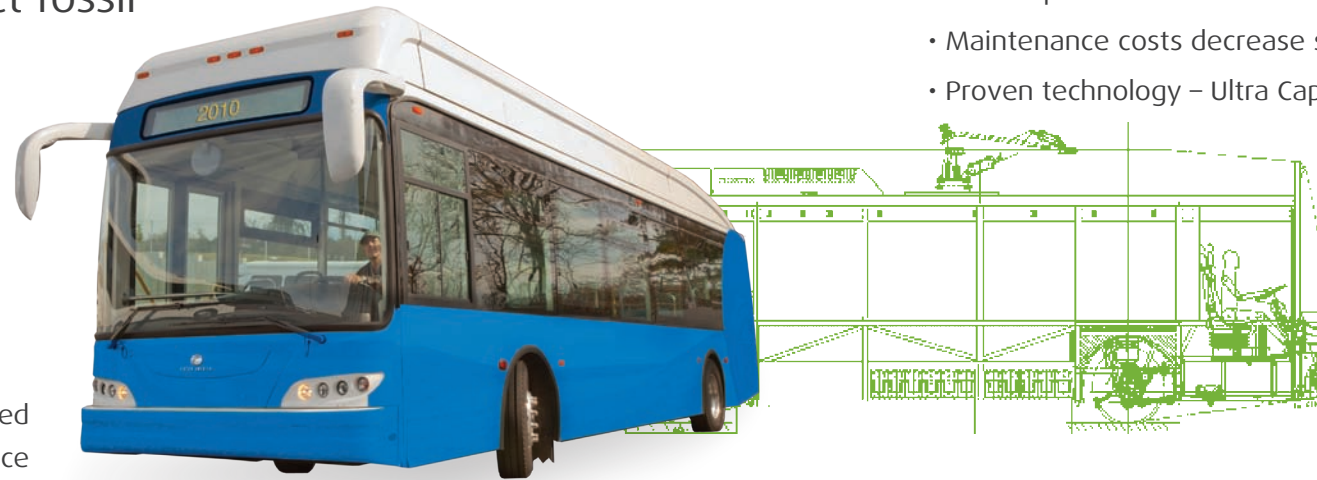
**Ultra  
Capacitor**

# Next stop...the Future

## Foton America Introduces Ultra Capacitor (UC) Technology

The future is here today. If you're looking for the next generation of bus technology, then look to Foton America's Ultra Capacitor bus.

An ultra capacitor bus uses no direct fossil fuels for power, emits no pollution, is virtually silent, and the technology is proven.



### What is an Ultra Capacitor?

It's an alternative energy storage device that is composed of electrodes, electrolytes, a separator, and a high-surface carbon electrode. It can be best described as a sponge-like substance that collects positive and negative electrons.

### Features

- Stores and discharges power 15 times more efficiently than a typical battery
- Long lifetime compared to batteries – equal to, or greater than one million cycles
- Rugged and safe – they work at extreme temperatures
- UCs use benign chemicals and abundant raw materials, making them eco-friendly
- Reduces the dependence on foreign fuel import needs
- Emits no greenhouse gas emissions
- The US national electricity cost average is 9.13 cents. A UC bus uses only 2 kWh/mile of electricity, or 18.25 cents/mile.

### How does this technology work with buses?

In the ultra capacitor bus system, power is stored in ultra capacitors and is used to drive the bus as well as run the auxiliary devices. The UCs are recharged at the bus stops, while the bus is picking up passengers. Ancillary parts (heater, A/C, radio, signal lights, etc) will also run off the ultra capacitors. The option of a regenerative braking system provides additional charging while the bus is in operation.

### Advantages for Transit Authorities

- Ultra Capacitors can be retrofitted to a vehicle, to replace the current method of power.
- Maintenance costs decrease since the need for fuel, anti-freeze, and engine oil is eliminated.
- Proven technology – Ultra Capacitor technology has been utilized overseas for over four years with no breakdowns related to the technology.
- Technology is continuing to improve. The next generation of ultra capacitors will have greater range, increasing from the current six miles to ten miles per charge, and in the near future, 35 miles per charge.
- Highly efficient operating system
- Decreased noise pollution and air pollution
- Cost effective – an Ultra Capacitor bus costs approximately the same as a diesel-electric hybrid.

### How does the bus charge?

An Ultra Capacitor bus can run up to six miles on a single charge. Charging stations are set up along the bus route. When the bus pulls up to the charging station, a boom is elevated by the driver to contact the catenary. In approximately 30–90 seconds the charge is complete, and the driver lowers the boom and resumes the route.

The catenary is positioned above the bus and is only active when contacted by the metal boom.



Charging boom. The boom is elevated by the driver to contact the catenary.

Transformer can be installed above or underground.

