

The Ultra Vehicle



The vehicle is based on conventional automotive technologies and is electrically powered with four rubber tired wheels. Principal parameters are given in Table.

Alternative interiors are available with individual or bench seats accommodating four to six seated passengers. The vehicle has a level entry from the station to allow easy access for wheelchairs, shopping or pushchairs.



Figure 1: Vehicle Interior

Ultra Vehicle: Principal Parameters	
Gross Weight	1300kg
Empty weight	850kg
Max speed	40kph
Length	3.7m
Width	1.45m
Height	1.6m
Passengers	4-6
Continuous power	2kW

Table: Vehicle Parameters

Because the vehicle is light and only travels at low speed, power requirements are low. As well as providing major sustainability benefits, this means that battery power with opportunity recharging at the stations is possible. The battery pack weight at 64kg is only 5% of gross weight, compared to many electric vehicles which require up to 50% of their gross weight for batteries. These factors combine to make electric Ultra vehicles practicable.