

Buggy Power (All-Electric) – Basic Version

BASE SPECS ¹	
Length / Width / Height (mm)	3,480 mm / 1,855 mm / 1,480 mm
Between axis / Ground clearance (mm)	2,180 mm / 200 mm
Tires	235/85R16
Capacity	5 people
Total vehicle weight (kg)	800 kg
BATTERIES	
Batteries type	Lithium Ions ² (LiFePO ₄)
Average range per charge ³ (miles)	> 50 miles
Batteries capacity (kWh)	15.36 kWh
Batteries weight (kg)	100 kg
Battery Management System – BMS	Cell balancing, Monitoring and Protections
ONBOARD CHARGER	
Batteries recharge type	Slow (recommended and priority)
Type of connector	Type 2
Supply voltage (V _{AC})	220 V _{AC}
Onboard charger capacity (kW)	3.3 kW
Slow recharge time ⁴ (hours)	≤ 5:00 h
Full slow charge cost ⁵ (US\$D)	≤ US\$D 2.00
PERFORMANCE	
Gearbox	Single March ⁶
Traction	Rear wheel drive
Maximum speed ⁷ (mph)	40 mph
POWERTRAIN	
Power (kW)	12.0 kW nominal / 24.0 kW maximum
Average wheel torque ⁸ (N.m / kgf.m)	595.6 N.m / 60.76 kgf.m
Maximum wheel torque ⁸ (N.m / kgf.m)	1,189.5 N.m / 121.33 kgf.m
SAFETY	
Electronic traction control	Yes
Disc brakes	Yes (4-wheel disc brakes)
CONVENIENCE, ENERGY EFFICIENCY AND ECONOMY	
Automotive seats	Shell type benches
Lighting	LED lamps
Regenerative braking	Yes
Average cost of the mile ⁹ (US\$D/mile)	≤ US\$D 0.04/mile
SUSTAINABILITY	
Atmospheric emissions (CO ₂ , NO _x and SO _x)	Zero Emissions
Noise level	Negligible

Notes:

- eiON[®] reserves the right to change the features described in the Datasheet at any time, for any reason, without prior notice, in its sole discretion, at no charge. Updated information is available on our website (www.aaaeion.com).
- The price for eventual battery replacement service at an authorized eiON[®] service center is fixed, considering the delivery of used batteries as part of the payment, and provided since the used batteries have only natural wear and tear (no damage), and in this case, the reverse battery logistics are guaranteed by eiON[®] for all your vehicles.
- Energy consumption and autonomy depend on several variables, among which we highlight: the conditions of relief, ambient temperature, age of the batteries, weight of the load, the way of driving by the pilot etc. The values presented in the Datasheet are theoretical and estimated, adopting ideal assumptions.
- The vehicle is equipped with an onboard charger for slow recharging of batteries, which is recommended for preserving the health and life cycle of the batteries. The slow recharge times shown in the Datasheet were estimated by recharging the batteries from a Depth of Discharge ("DoD") of 80% (eighty percent) to 90% (ninety percent) recharge of the maximum battery capacity. The time for slow recharging may vary, depending on battery age and ambient temperature, among other factors.
- The value is estimated. To estimate the value presented in the Datasheet, a hypothetical residential electricity tariff of US\$D 0.16 / kWh was considered. The value shown is theoretical only and refers to a Depth of Discharge ("DoD") of 80% (eighty percent). To preserve batteries life cycle, is not recommended the use of Depths of Discharge ("DoDs") greater than 80% (eighty percent).
- The electric motor is directly coupled to the differential, which in turn has a fixed reduction ratio. The vehicle does not have a gearbox.
- Maximum speed in this version is electronically limited for safety reasons.
- The powertrain torque is instantaneous and virtually constant for low rotation values (vector control). The values presented already consider the differential reduction ratio, with the consequent multiplication of the torque on the wheel's axle.
- The cost of the traveled kilometer depends on several variables, among which we highlight: the conditions of relief, ambient temperature, age of the batteries, weight of the load, the way of driving by the pilot etc. The value presented in the Datasheet is estimated. To estimate the value presented in the Datasheet, a hypothetical residential electricity tariff of US\$D 0.16 / kWh was considered. The value shown is theoretical only and refers to a Depth of Discharge ("DoD") of 80% (eighty percent). To preserve batteries life cycle, is not recommended the use of Depths of Discharge ("DoDs") greater than 80% (eighty percent).

Sustainability is Lifestyle!