



# AA-Cargo



aidea

# Save our Earth with an electric vehicle

A significant issue that we are facing now is Global Warming.  
One of the solutions is ZEV, Zero Emission Vehicle.

Compact, energy-efficient electric vehicle can be considered as contribution  
to our environment and society.

aidea AA-Cargo can be your first step towards contributing to our earth.  
We hope our product contributes to the planet.



# Italian Design × Japanese Quality

AA-Cargo is designed in Italy and  
produced under strict quality control in Japan.



aidea Design Centre  
(Rome, Italy)



aidea Production Factory  
(Sagamihara city, Kanagawa)

# Environmentally Friendly

During the UN summit in 2015, one of the adopted keys to achieve SDGs (Sustainable Development Goals) was ZEV (Zero Emission Vehicle) Usage. AA-Cargo will provide environmentally friendly mobility or mobile solution.

## Reduction of CO2 Emission



Approximately 18% of CO2 emission in Japan, 213 million tons per year, comes from the transport sector, including private and commercial vehicles, freight cars, and ships. The effort to become low CO2 emission society is the issue that we all encounter. By replacing gasoline engine vehicles with electric vehicles, it is possible to reduce approximately 1.1 tons / year \* per vehicle. The implementation of electric vehicles that do not emit CO2 when driving is the first step in improving global warming and achieving a prosperous future.

\* Monthly mileage 1,000 km, fuel consumption 25 km / L (Source: Ministry of Environment Japan)

## Utilize Renewable Energy

Vehicles powered by electricity, which can be produced from renewable energies such as solar, wind and hydropower, instead of the limited fossil energy "gasoline", have a lower environmental impact and are considered as sustainable mobility.



# Friendly to Society

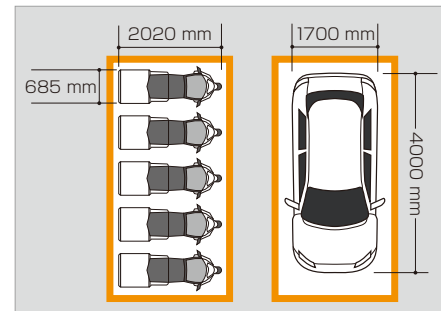
Next-generation mobility should not only coexist with society but also contribute to society. AA-Cargo is a mobility that can "help people" with features not to be found in existing vehicles and cars.

## Portable Battery



AA-Cargo is equipped with a 4 kWh large capacity battery which is useful as a storage battery. In Japan, electricity is cheaper during the nighttime and battery can be charged at night and used during the daytime. As a result, it contributes to leveling the power load (peak shift). In addition, taking advantage of the unique capability of a vehicle, it will be possible to use electricity anytime and anywhere as a "portable power source". It can also be used for power supply during outdoor events or disasters.

## Optimal Size in city



A vehicle that is less than half the size of a small passenger car both vertically and horizontally. This compact size can solve various problems in urban areas such as lack of parking lots, narrow roads and traffic jams. This is an extremely efficient logistic solution for a single person with small amount of luggage.

## Low Noise Level



There is no noise when starting the Electric vehicles and no engine noise while idling. You can drive the electric vehicles without hesitation in the early morning or night around residential area. Furthermore, electric vehicles can be used in indoor such as warehouses as electric vehicles do not emit any CO2 .

# Supporting Business

AA-Cargo can be a good business partner for your business. It reduces the problems of conventional commercial vehicles, but also has the potential to create new business opportunities.

## Low Running Costs



Comparing to the cost required to ride 1km, an electric vehicle costs about 1/3 of an engine vehicle. Thus, the more you ride in terms of distance, the more you save. Regular maintenance such as engine oil is not required; reducing both labour and costs. Furthermore, the risk of repair is minimized because the amount of parts that make up the vehicle are relatively small. It is a lot less hassle than refueling at gas stations.

## Less Effort



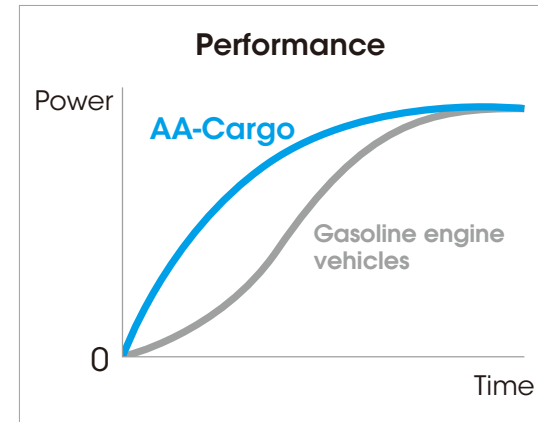
There is no need to go to the gasoline station to refuel the electric motorcycle as it runs on electric power. You only need to plug in the charging cable, just like charging your cell phone. The AA-Cargo also changes the user's lifestyle along with the way of using energy.

## Stylish



aidea's electric vehicles are all designed in Italy. The unique design from Italy, brings fusion of tradition and modernity, brings joy to viewers and riders. It also helps to emphasize the uniqueness and advance of the company. **(2018 Good Design Award Winner)**

## Excellent Performance



The driving characteristics of electric motorcycles are completely different from those of gasoline engine vehicles. The moment you accelerate, the motor generates a large torque (force to turn the wheels) and the vehicle starts moving smoothly. You can easily feel the difference when you are carrying objects such as paper and beverages with electric motorcycles.

## Supporting business with tough loading platforms, 3-wheel EV that is friendly to the environment and society



- Around 4 kWh large capacity battery
- Screen with wiper and roof
- 13 inch large diameter wheel
- Right and left independent rear suspension
- Large loading platform with a maximum loading capacity of 100 kg
- Reverse function

Model	Battery	Input Voltage	Power
<b>AA-Cargo L2e</b>	3.85 kWh	100 V - 240 V AC	0.6 kW
<b>AA-Cargo L5e</b>			1.0 kW

\*Box in the photo is for reference only and the box comes as an option at extra cost.



## User friendly and reliable designy



LED headlight that illuminates the road surface brightly and increase visibility and ensure rider safety.



Windshield and roof protect the rider from rain and harsh sunlight. The wiper ensures good visibility even in the rain, and you can drive comfortably.



Full-color LCD meter that graphically displays speed, battery level, mileage, etc.



Combination brakes (front and rear disc brakes) that link the front and rear to provide stable braking force.



Both front and rear are equipped with 13-inch wheels. It promises a stable ride even when passing over bumps, or driving in poor road conditions.



Right and left independent suspension rear suspension that enables stable running on rough roads and steps.

## Functions that support business



Two USB power sockets (5V1A / 5V2A) that can supply power to mobile devices.



Roll lock lever to fix the vehicle vertically and parking lever to fix the vehicle in the front-rear direction.



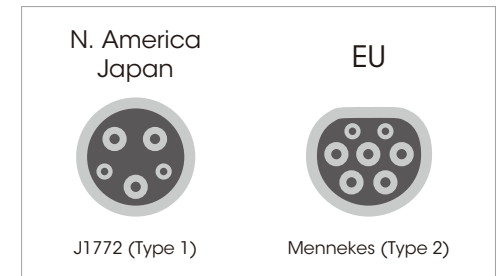
AA-Cargo is equipped with reverse function. If you turn the throttle while pressing the switch on the right-handle, the motor will rotate in the reverse direction and the vehicle will move backward. It is easy to handle in narrow alleys and parking spaces.



Large, flat loading platform (with loading hook) for various applications.



Equipped with J1772 (Type 1) or Mennekes (Type 2) socket, which are the international standard for EVs. The vehicle can be used around the world.



Type 1 or Type 2 charging socket available for charging the vehicle around the world.

# Specifications

Model	AA - Cargo L2e	AA - Cargo L5e
Length x Width x Height	2,020 mm × 685 mm × 1,715 mm	
Seat Height	700 mm	
Weight	207 kg	
Capacity	1 Passenger	
Motor Type	Brushless DC Wheel Hub Motor	
Power	0.6 kW	1.0 kW
Gear Box	Integral Wheel Hub Motor	
Battery Type	Lithium Ion 48 V	
Vehicle Charging Inlet ①	Type 1 / Type 2	
Input Voltage	100V - 240V AC	
Battery Capacity	3.85 kWh	
Charging Time ②	around 180 mins	
Distance per Charge ③	98 km (Based on L2E 30km/hr test cycle)	80km / 160km* (Based on L5E 50km/hr test cycle)
Suspension	Front	Φ35 Hydraulic Telescopic
	Rear	Single Shock with Preload Adjustment Mechanism
Tires	Front	120/70 - 13 "
	Rear	130/60 - 13 " ×2
Brakes	Front	Φ240 mm Disc
	Rear	Φ220 mm Disc × 2
Waterproof and Dustproof Performance	IP 65 (Battery)	
Warranty	Up to 2 years or 30,000 km ( Battery Guaranteed 50% of capacity )	

① Type of inlet depends on the requirement in the sales area

② Based on 220V AC input

③ Figure is for reference only and may vary depending on the loading weight and road conditions.

• This catalog was created in December 2020. Information are subject to change without notice.

• Actual specification, color, equipment and other details of vehicle may differ.

## Options

We have four sizes of boxes that can be used for various purposes such as business and leisure. Made of lightweight and strong FRP.



220 l type  
Dimension  
620 mm (Width)  
520 mm (Depth)  
820 mm (Height )



322 l type  
Dimension  
735 mm (Width)  
775 mm (Depth)  
665 mm (Height )



215 l type  
Dimension  
635 mm (Width)  
635 mm (Depth)  
620 mm (Height )



160 l type  
Dimension  
615 mm (Width)  
540 mm (Depth)  
635 mm (Height )

## Custom Order

Custom orders are also available, such as inputting company name and brand logo stickers and changing body colors. Please feel free to contact us.

Logo Sticker



Original Color



1008 Bukit Merah Lane 3  
Singapore 159722  
Tel: 6273 2203  
sales@racewerks.com.sg





## Comparison Sheet



### AA-Cargo L5e

### Others

ENERGY Consumption : 48Wh/km

Top Speed : 70km/hr

Category : L5e

Maximum Range : Single Battery : 80km  
\*EU L5e test cycle Dual Battery : 160km

Actual Mass : 281kg

Parking Dimensions : (L) 2020mm x (W) 645mm

Braking : Combine Braking System

Tilt Angle : 23°

Gradability : 30%

Loading Weight : 75kg

Loading Volume : Factory Box : 310L  
Custom Box : 550L

ENERGY Consumption : 68Wh/km

Top Speed : 45km/hr

Category : L2e

Maximum Range : 96km  
\*on L2e test cycle?

Actual Mass : 338kg

Parking Dimensions : (L) 2100x (W) 750mm

Braking : Normal Independant Braking System

Tilt Angle : 18°

Gradability : 20%

Loading Weight : 50kg

Loading Volume : Factory Box : 450kg



**70km/hr**

Max Speed

**48wh/km**

Energy Consumption

**23°**

Tilting Angle



AA-Cargo L5e

**30%**

Gradeability

up to **550L**

Loading Volume.

\*310L for Factory Box (optional)

\*Customisable Box

up to **75KG**

Loading Weight

**CBS** Combined  
Braking System

up to **160km**

Total Range (L5e Test cycle)

\*with optional 2nd battery



## REGULAR PETROL

3-Wheeler

160km / **\$18.93**

\*based on SHELL RON98 7.03.2022

## AIDEA AA-CARGO

3-Wheeler

160km / **\$2-\$4.40**

OWN EV CHARGER - PUBLIC CHARGER

\*based on electrical tariff Jan-Mar 2022

**\$1693**

Est\* Savings in SGD  
Average Annual Mileage  
16,000km

up to

**900%**

**SAVINGS**



AA-Cargo L5e