



Altos Engineers Pvt. Ltd.

Electric Vehicle Equipments

PRODUCT 2022
BROCHURE



www.altosengineers.com



Altos Engineers Pvt. Ltd.
Electric Vehicle Equipments

ABOUT **ALTOS**



Our company launched in 2002, and since then, we have come a long way. We have a long history of success and widespread recognition as a result of our commitment to 100% client satisfaction. No matter how much pressure there was, we would never compromise on the materials or services we provide to our clients. The electric product market will officially launch in 2022, and we intend to capitalise on this historic moment by providing our customers with the finest electric vehicle products at the most affordable pricing available. We are always thinking about what's to come and working hard to get there.



Altos Engineers Pvt. Ltd.
Electric Vehicle Equipments

INTRO

Altos engineers provide high-quality, efficient components for electric vehicles. Our company only hires the most qualified engineers, all of them have extensive backgrounds in product development. We are committed to making the most state-of-the-art products in this field, and we are optimistic about the future of technology. Our passion is another source of motivation that allows us to perform at a higher level and yet fulfill our clients' strict deadlines. We are committed to giving our full focus to both our work and our clients at all times. Altos engineers have a solid history of protecting their clients by being proactive throughout every stage of the process, from premarket safety design and testing to field safety performance monitoring and early corrective action where necessary. Any problems that may emerge with our products are quickly identified and fixed by our team of professionals.





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Message from director

In the era of new technology, we at Altos are conscious of the fact that our customers' expectations and requirements should be fulfilled by any means necessary, and as such we emphasize the importance of technology, quality, and support in regards to our customers.

Altos was formed in 2003 with the idea of providing superior and quality products, for different industrial segments. As the years went by, Altos decided to expand their business and enter different markets. We are now able to provide our clients with products and services that could serve their needs in various markets.

This all happened with the ethics we followed. The ethics, values, positive thinking determines the reputation of company and as a managing director of a company I completely understand the importance of ethics and values in life and business. And one of the most important value of our company is trust. Trust is earned when action meets words, and with all the actions we performed we earned trust in every segment of business in which company is working.

All this was not easy, we also faced many problems and challenges and we dug at the roots of the problems and solved each and every problem, we never frightened of problems.

This all was not only me, who did this all, there are many people behind the great achievement of Altos, our clients and every one of them who is working in our company. And I want to thank all of them who contributed their valuable time, hard work and effort to make all this happen and to help Altos to reach at new heights in all of its business segment.

With best regards
Ravinder Sharma
Managing Director

Why our products are best?

24/7 Support

Building relationships with our clients is important to us, therefore we're always here to offer a helping hand if they ask for it.

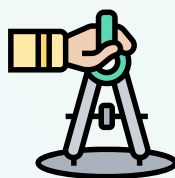


Customization

We customize what we do with intent and accuracy since we are aware that there is no one solution that fits all situations.

High quality

Our items are made from superior materials, and we never compromise on quality to save our cost.



Precise Design

We try to get the most out of the underlying technology. We think that intelligent design leads to better products.

Cost Effective

With the support of our engineers, we've created cost-effective processes and products.



Team of professionals

We have a team of highly skilled , experienced and professionals.

E-Rickshaw Charger

Very silent and smooth operation

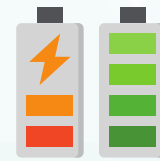


Features

- Innovative, Compact, light-weight design.
- Highly efficient.
- Auto cut
- Most reliable
- Great average life
- Charging indication with a LED.
- Best component layout for easy airflow
- Easy installation.
- Can be serviced by a local electrician
- Low cost of repairing.
- Thermal shutdown.
- Double fan cooling



Deep charging feature



Long lasting



Highly Efficient

Available in two modules

48 v charger

Specifications

- **Input Voltage:** 180-290V
- **Output Voltage:** 48 V
- **Current:** Max 7 Amp
- **Connection Type:** 1.5 meter length
- **Topology:** Half Bridge
- **Peak Efficiency:** 80%
- **Topology:** Half Bridge
- **Surge Protection:** Surge Protection(+/-6kV)
- **IP Protection:** IP55
- **Overload Protection:** 900w Max
- **Charging Technique:** Three Stage charging(CC,CV,Float)
- **Charge Indication:** Digital Display for Voltage and Current
- **Battery Capacity:** 100-150Ah Lead Acid Battery

25/48 v charger

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Protections

The E Rickshaw charger from Altos has a lot of safety features. Here are some of them:

1. Protection from overcharging

It keeps the battery from getting excessively full. The maximum amount of time you can charge is 7 hours.

2. Protection from Overload

With its internal circuitry, the E-Rickshaw battery charger from Altos protects the battery from overload by limiting the current.

3. Short circuit Protection

When there is a short circuit in the output terminals, the charger shuts down.

4. Protection from Overheating

When the charger's temperature goes above 85 °C, the charger shuts down to protect itself from overheating.

When the heat goes up, down to 70 °C, then it will automatically rise again.

5. Short circuit Protection

When there is a short circuit in the output terminals, the charger shuts down.

6. Protection for the Battery

When we connect the battery in the wrong way, the DC fuse in the charger protects itself.

E-Rickshaw motor

Brushless, fast and highly energy efficient



The new brushless DC motor range offers very high levels of performance in a very small package.

This all-in-one solution combines brushless motor technology integrated with advanced electronics to give smooth performance

Features

- anti corrosion body
- high quality ball bearings
- very high beginning current
- very high starting torque
- high regulation
- silent and smooth operation
- energy efficient
- low maintenance expenses
- Superior speed stability

- **Voltage:** 48V
- **Power:** 900 WATT
- **Speed:** 2000-6000 RPM
- **Type:** Brushless DC Motor
- **Rpm:** 3300

Why choose dc motor

Many applications call for a high start-up torque. The D.C. motor, by its very nature, has a high torque vs. falling speed characteristic and this enables it to deal with high starting torques and to absorb sudden rises in load easily. The speed of the motor adjusts to the load. Furthermore, the D.C. motor is an ideal way of achieving the miniaturization designers are constantly seeking because the efficiency it gives is high compared with other designs.

Dc to Dc converter

This is the greatest product of our company



Features

- High efficiency
- Very fast transient response time
- Smooth and silent output power
- Compact, light-weight design
- Handles a wide input voltage range and multiple output voltages
- Provides stable supply
- High-temperature performance
- Energy efficient
- Reliable
- Short circuit protection

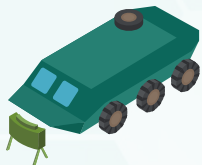
Applications



E-rickshaw



Golf Cart



Military Equipments



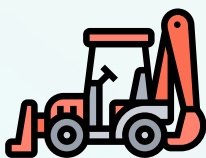
Tractor



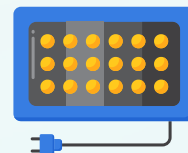
Truck



E-bike/Scooter



Construction Equipment



LED Lights

Available in two modules

15 amp converter

Specifications

- **Input Voltage:** 30/52
- **Output Voltage:** 12 V
- **Material:** Aluminium
- **Current:** Max 15 Amp
- **Temperature:** -25 to 85 degree celsius
- **Peak Efficiency:** 80%
- **Topology:** Buck converter
- **Surge Protection:** Surge Protection(+/-6kV)
- **IP Protection:** IP55
- **Overload Protection:** 1200w Max

20 amp converter

Specifications

- **Input Voltage:** 30/52
- **Output Voltage:** 12 V
- **Material:** Aluminium
- **Current:** Max 20 Amp
- **Temperature:** -25 to 85 degree celsius
- **Peak Efficiency:** 80%
- **Topology:** Buck converter
- **Surge Protection:** Surge Protection(+/-6kV)
- **IP Protection:** IP55
- **Overload Protection:** 1200w Max

Electric Vehicle motor controller

This is the greatest product of our company



The electric vehicle controller is the main control device that is used to govern the beginning, running, advancing and retreating, speed, and stopping of the electric vehicle/bike motor as well as other electronic equipment.

It functions similarly to the brain of the electric car or bike and is an essential part of the controller for the electric vehicle.

There are many different types of electric vehicles, the most common of which being electric bicycles, electric two-wheeled motorcycles, electric tricycles, electric three-wheeled motorbikes, electric four-wheeled vehicles, battery automobiles, and so on.

Because there are so many distinct types of electric vehicles, the controllers for those vehicles each have their own unique performances and features.

Our electric vehicle controller features an automated self-learning mechanism that allows it to automatically learn the motor phase and repair the motor in the event that the motor hall is broken.

This allows the electric rickshaw to continue to be used even if the motor hall is destroyed.

The design of the structure should be optimised so that the huge current can flow through it.

Improving the fixation, boosting the stability, and boosting the fire performance to a larger extent are all goals that will be pursued.

our motor controller is available in two variant

This is the greatest product of our company

E-rickshaw controller



- **Input Voltage:** 110-300VAC, 47-53Hz.
- **Output Voltage:** 42VDC
- **Rated Voltage:** 48V/64V
- **Low Voltage:** 41V/52V \pm 0.5V
- **Rated Power:** 1000Watt
- **Material:** aluminum, Limit Current: 40A

E bike controller



- **Input Voltage:** 110-300VAC, 47-53Hz.
- **Output Voltage:** 42VDC
- **Rated Voltage:** 48V/64V
- **Low Voltage:** 41V/52V \pm 0.5V
- **Rated Power:** 1000Watt
- **Material:** aluminum, Limit Current: 40A

E-rickshaw differential

This is the greatest product of our company



- **Voltage:** 48V
- **Usage/Application:** Electric rickshaw differential
- **Size:** 33/36 inches
- **Shape:** Closed gear
- **Rear Axel Length:** 33/36 inches
- **Brake Shoe Diameter:** 160mm
- **Vehicle Type/Model:** Electric rickshaw and loader



Altos Engineers Pvt. Ltd.
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Industries we serve

Hospital Equipments

We manufacture different types of hospital and operation equipment which include all different types of pendants, gas control units, ceiling and wall panels, and doors used in an operation theatre. We can provide Economical Solutions, as well as Design and Manufacture Products Customised to Your Specifications.

Facade Solutions

Our team has extensive experience in façade design, engineering, and contracting to meet our client's expectations. We work with designers and contractors to develop inventive, effective, and unique facade solutions.

Building & Construction

Altos specializes in the delivery of large and complicated building projects, and we do this by making use of our talented personnel and our in-house expertise.

Electrical Vehicle Equipments

Altos manufactures items for electric vehicles and the company's own designs are among the highest-quality electrical vehicle products now on the market. In addition, Altos develops electric vehicle products that are specifically tailored to the customer's needs.





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Electric Vehicle Equipments

**THANK YOU, AND WE LOOK FORWARD
TO WORKING WITH YOU.**

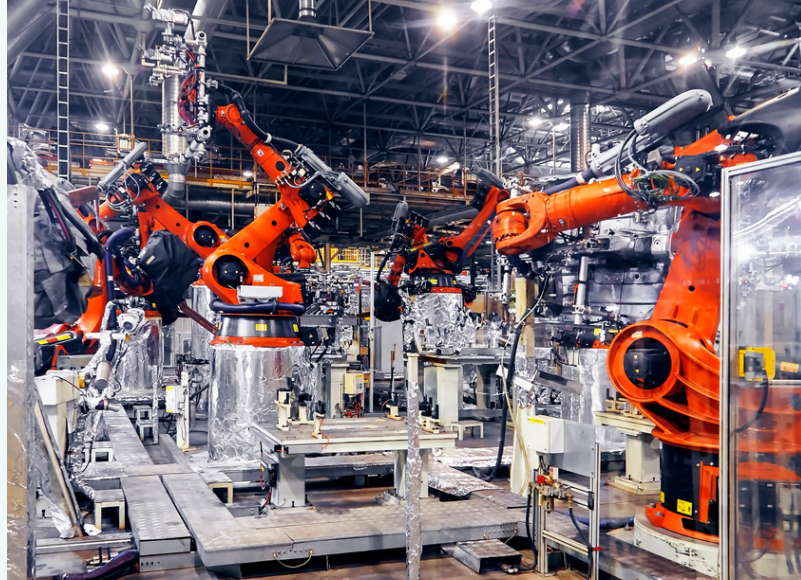
OFFICE

Plot No-34, Pace City 1,
Sector 37 Gurugram-122001
Haryana, India



MANUFACTURING

*Plot No.758, Street No.
13, Kadipur Industrial Area,
Gurugram-122001
Haryana, India*





Corporate Office:

*Plot No-34, Pace City 1, Sector 37
Gurugram-122001 Haryana,India*



Works:

*Plot No.758, Street No.
13,Kadipur Industrial Area,
Gurugram-122001
Haryana,India*



Sales Office:

*3 Emery Dr Clyde
North Vic 3987
Melbourne
Australia*



info@altosengineers.com



www.altosengineers.com

