ALTRACK

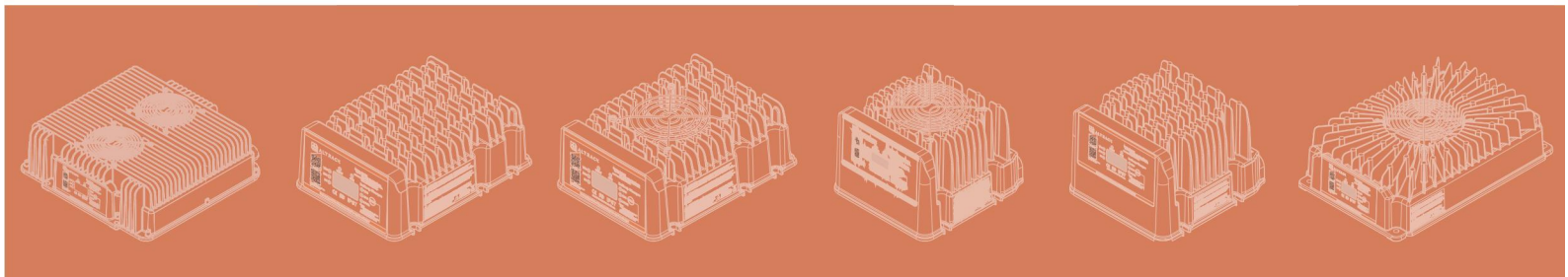
Smart Charger Supplier

High reliability / Modularity



Guangdong Altrack Heavy IndustryTechnology Co., Ltd.

www.altrack.com.cn



FACTORY



2020
Establish

2500 m²
Area

10000+
Monthly capacity

100 +
Employees

ABOUT

We are the Best- In - Class Charger Manufacturer

Altrack, deep in the field of charging, has brought together a research and development elite team with more than 20 years of rich experience, especially in the field of aerial work platform charging, our team has accumulated more than 10 years of professional sharpens. What is even more remarkable is that we work closely with a team with 18 years of outstanding experience in the development of military module power supplies, a strong combination that provides us with a solid industry background and deep expertise. Our charger is based on the design concept of military module power supply, which is not only innovative and bright, but also can adapt to various harsh conditions. We always adhere to the integration of independent research and development, production and sales, and are committed to providing customers with a full range of products with excellent quality





Brand	ALTRACK
Products	Charger, Module power supply, Military power supply
Spirit	Integrity, Innovation, Pragmatism, Efficiency
Q P	Provide quality technology products and services to meet customer requirements
Vision	To be the most reliable supplier in the charging field

CORPORATE ADVANTAGES

01 Personalized customized

The company pays attention to customer needs, provides personalized customized services, and can provide comprehensive charging solutions according to the specific needs of customers

02 High quality and reliability

Modular design creates flexible manufacturability and high consistency quality; creates very high mass quality and low repair rate. Product PCBA online AOI test, product PCBA bare board ATE full test, semi-finished product ATE full test, finished product ATE full test, 100% aging, air tightness full test, insulation pressure full test.



03 Management system

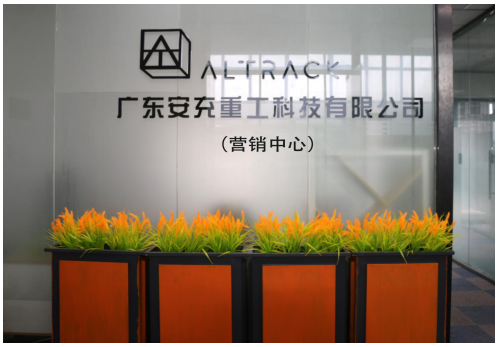
Our management system: ERP, MES, ENG, LOG , systems, production information management system, through the enterprise from raw materials into the factory to the final formation of products to leave the factory all value-added process, to achieve information sharing, information tracking, collaborative

04 Application

Our products used in aerial work platform, engineering mechanical vehicle, AGV, logistics robot, ship sailing, land washing vehicle, electric competition, weapons, automotive electronics and other fields.







PRODUCT ADVANTAGES

Maintain military design ideas and concepts

01 IP67 protection, Passivated housing

The shell is passivated to effectively prevent oxi dation, IP67 protection is waterproof and dustpr oof, and the low temperature is still rechargeabl e at -30C°

02 Bluetooth APP (CN/EN support)

Connect the charger Bluetooth through the mobile phone APP, change the charging profile, check the charging status ,upgrade the firmware, all operations can be completed without touching the vehicle

03 CANBUS (support remote OTA function)

The charger is standard with CANBUS commun ication, CAN and external power supply are isol ated, lithium and lead acid can be used, there is no need to distinguish the model, easy to use

04 Wide Input voltage, High voltage protection

Ac input 85-265VAC, worldwide, low voltage protection 75VAC
270VAC High voltage protection, AC surge high voltage 420VAC is not damaged

05 The connector is pluggable

All input, output, signal cable connectors on the charger, all support pluggable, easy installation and after-sales service

06 Battery repair function

The battery repair profile can be defined, and the cha rger can be set to the adjustable power mode for mult iple/single batteries through the APP, and the voltage and current can be set to charge and repair the over-discharge injured batteries (single or whole batteries)

07 Online Charging profile library

In addition to the built-in profile of the charger, you can also connect Bluetooth through the APP to get the most online charging curves, convenient and fast download, no longer need a U disk, need t o move the car or open the car body to operation

08 Charging profile be recognized

The charging profile is set for different batteries one to one, and the charging profile is recognized by th e battery manufacturer, so as to fully charge the bat tery for customers, charge it well, and escort it

ADVANTAGES



Parameter Table

Character	Model	 AIC1724	 AIC3024	 AIC3624
Output	Rated output voltage(VDC)	24	24	24
	Rated output power (W)	408	720	864
	Max output voltage (VDC)	34	34	34
	Max Output Current (DC)	17	30	36
Input	Input phase property	Single phase	Single phase	Single phase
	Max current of power line(AC)	10	10	10
	Rated input voltage range (VAC)	100-240	100-240	100-240
	Operating Voltage Range (VAC)	85-265	85-265	85-265
	Rated operating frequency (HZ)	50-60	50-60	50-60
	Operating frequency range (HZ)	47-63	47-63	47-63
	Max input Power (VA)	441	778	933
	High voltage protection range	270-420	270-420	270-420
	Max efficiency (η)	92%	92%	92%
	Power factor cosΦ(full load)	0.99	0.99	0.99
Protection		Output overvoltage, Output reverse connection, Output short circuit, Internal high temperature, High battery temperature		
Function	Bluetooth 5.0	Yes	Yes	Yes
	CANBus	Yes	Yes	Yes
	Charging lock	Yes	Yes	Yes
	External light digital display	Yes	Yes	Yes
	Isolation Auxiliary Power Supply (12V0.5A)	Yes	Yes	Yes
	Isolation Auxiliary Power Supply (12V5A)	No	No	No
	Charging diary	Yes	Yes	Yes
	Automatic conversion of lead-acid/lithium charge	Yes	Yes	Yes
	Battery voltage detection	Yes	Yes	Yes
	Battery Repair	Yes	Yes	Yes
	Charging curve can be changed	Yes	Yes	Yes
	Adjustable Power Supply (VPS)	Yes	Yes	Yes
	Altrack App	Yes	Yes	Yes
	Online Charging profile library	Yes	Yes	Yes
	Firmware Bluetooth update	Yes	Yes	Yes
	Remote OTA update	Customizable	Customizable	Customizable
Environment	Operating/storage temperature	-30~65℃ / -30~85℃ humidity 10~90%RH / 5~95%RH		
	level of protection	IP67，IEC60529；EN60529		
	Corrosion/drop resistance	GB/T 2423.17 ， ISTA-1A@Packing		
	Vibration	UL1236 频率：10~60Hz,峰值：0.508mm, X Y Z三轴向，各4小时		
Safety regulation	Insulation and voltage resistance	I/P-O/P:3000Vac I/P-FG:1500Vac O/P-FG:500Vac		
	Insulation resistance	I/P to O/P，I/P to FG，O/P to FG:100Mohms/500VDC/25℃/70%RH		
Electromagnetic compatibility	Electromagnetic compatibility emission	Comply with FCC certification; Conduction ClassB, radiation ClassA; EN61000-3-2,-3		
	Electromagnetic compatibility immunity	IEC61000-4-2,3,4,5,6,8,11;EN61000-6-2,Grade A heavy industry		
Certificate	Certificate	cETLus，CB，CE，FCC		
Size	L x W x H Dimensions (MM)	208x152x80MM	208x152x80MM	203.5x186x138MM
	Weight (KG)	2.2	2.3	4.0

 AIC6024	 AIC3548	 AIC6048	 AIC4072	 AIC10048	 AIC8080
24	48	48	72	48	80
1440	1680	2880	2880	4800	6400
34	68	68	102	68	112
60	35	60	40	100	80
Single phase	Single phase	Single phase	Single phase	Single-phase/three-phase four-wire	
10	10	16	16	32/16	32/16
100-240	100-240	100-240	100-240	100-240/380	100-240/380
85-265	85-265	85-265	85-265	85-265	85-265
50-60	50-60	50-60	50-60	50-60	50-60
47-63	47-63	47-63	47-63	47-63	47-63
1555	1814	3110	3110	5184	6912
270-420	270-420	270-420	270-420	270-420	270-420
92%	92%	92%	92%	92%	92%
0.99	0.99	0.99	0.99	0.99	0.99
Input overvoltage, input undervoltage protection functions					
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Choose accessories	No	Choose accessories	Choose accessories	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Customizable	Customizable	Customizable	Customizable	Customizable	Customizable
-30~65℃ / -30~85℃ humidity10~90%RH / 5~95%RH					
IP67，IEC60529；EN60529					
GB/T 2423.17 ， ISTA-1A@packaging					
UL1236 Hz：10~60Hz,峰峰值：0.508mm, X Y Z三轴向，各4小时					
I/P-O/P:3000Vac I/P-FG:1500Vac O/P-FG:500Vac					
I/P to O/P，I/P to FG，O/P to FG:100Mohms/500VDC/25℃/70%RH					
Comply with FCC certification; Conduction ClassB, radiation ClassA; EN61000-3-2,-3					
IEC61000-4-2,3,4,5,6,8,11;EN61000-6-2,Grade A heavy industry					
cETLus，CB，CE，FCC					
359x238x100MM	203.5x186x138MM	359x238x100MM	359x238x100MM	356x265x115MM	356x265x115MM
6.8	4.1	6.8	6.8	9.2	9.2

PRODUCT INTRODUCTION

AIC1724 17A 24V

AIC1724 is a high reliability intelligent charger with **408W** power output, suitable for different battery types of 24V system. The product adopts cast aluminum integrated molding, IP67 protection and natural heat dissipation.



Product function

Wide voltage Input	85-265Vac, 47-63Hz wide range of input, minimum operating voltage up to 75Vac, universal
Intelligent management	Bluetooth function, through the mobile phone APP can manage the charger status, mode, switching charging profile, view the charging diary
CANBUS	CANBUS communication function, (auxiliary source band isolation) lithium battery or lead acid can be charged, no need to distinguish the model, support remote OTA
Battery repair function	The repair Profile can be customized, and the APP also supports setting the charger as an adjustable power supply, and the voltage and current can be set separately to pull up the voltage of the overdischarged battery (single/whole group)
Digital display	Digital display of AC voltage, output voltage, current, charging SOC percentage, intuitive understanding of charging status
Protection	Surge high voltage 420Vac is not damaged, with high/low voltage, short circuit, high/low temperature, battery high temperature, reverse and other protection functions
Size	Product size: 208Lx152Wx80H, unit mm

Application scenarios









PRODUCT INTRODUCTION

AIC3024 30A 24V

AIC3024 is a high reliability intelligent charger with **720W** power output, suitable for different battery types of 24V system. The product adopts cast aluminum integrated molding, IP67 protection and natural heat dissipation.



Product function

Wide voltage Input	85-265Vac, 47-63Hz wide range of input, minimum operating voltage up to 75Vac, universal
Intelligent management	Bluetooth function, through the mobile phone APP can manage the charger status, mode, switching charging profile, view the charging diary
CANBUS	CANBUS communication function, (auxiliary source band isolation) lithium battery or lead acid can be charged, no need to distinguish the model, support remote OTA
Battery repair function	The repair Profile can be customized, and the APP also supports setting the charger as an adjustable power supply, and the voltage and current can be set separately to pull up the voltage of the overdischarged battery (single/whole group)
Digital display	Digital display of AC voltage, output voltage, current, charging SOC percentage, intuitive understanding of charging status
Protection	Surge high voltage 420Vac is not damaged, with high/low voltage, short circuit, high/low temperature, battery high temperature, reverse and other protection functions
Size	Product size: 208Lx152Wx80H, unit mm

Application scenarios






PRODUCT INTRODUCTION

AIC3624 36A 24V

AIC3624 is a high reliability intelligent charger with 864W power output, suitable for different battery types of 24V system. The product adopts cast aluminum integrated molding, IP67 protection and natural heat dissipation.



Product function

Wide voltage Input	85-265Vac, 47-63Hz wide range of input, minimum operating voltage up to 75Vac, universal
Intelligent management	Bluetooth function, through the mobile phone APP can manage the charger status, mode, switching charging profile, view the charging diary
CANBUS	CANBUS communication function, (auxiliary source band isolation) lithium battery or lead acid can be charged, no need to distinguish the model, and support remote OTA
Battery repair function	The repair Profile can be customized, and the APP also supports setting the charger as an adjustable power supply, and the voltage and current can be set separately to pull up the voltage of the overdischarged battery (single/whole group)
Digital display	Digital display of AC voltage, output voltage, current, charging SOC percentage, intuitive,understanding of charging status
Protection	Surge high voltage 420Vac is not damaged, with high/low voltage, short circuit, high/low temperature, battery high temperature, reverse and other protection functions
Size	Product size: 203.5Lx186Wx138H, unit mm

Application scenarios






PRODUCT INTRODUCTION

AIC3548 35A 48V

AIC3548 is a high reliability intelligent charger with **1680W** power output, suitable for different battery types of 48V system. The product adopts cast aluminum integrated molding, IP67 protection and natural heat dissipation.



Product function

Wide voltage Input	85-265Vac, 47-63Hz wide range of input, minimum operating voltage up to 75Vac, universal
Intelligent management	Bluetooth function, through the mobile phone APP can manage the charger status, mode, switching charging profile, view the charging diary
CANBUS	CANBUS communication function, (auxiliary source band isolation) lithium battery or lead acid can be charged, no need to distinguish the model, and support remote OTA
Battery repair function	The repair Profile can be customized, and the APP also supports setting the charger as an adjustable power supply, and the voltage and current can be set separately to pull up the voltage of the overdischarged battery (single/whole group)
Digital display	Digital display of AC voltage, output voltage, current, charging SOC percentage, intuitive, understanding of charging status
Protection	Surge high voltage 420Vac is not damaged, with high/low voltage, short circuit, high/low temperature, battery high temperature, reverse and other protection functions
Size	Product size: 203.5Lx186Wx138H, unit mm

Application scenarios







PRODUCT INTRODUCTION

AIC6048 60A 48V



AIC6048 is a high reliability intelligent charger with **2880W** power output, suitable for different battery types of 48V system. The product adopts cast aluminum integrated molding, IP67 protection and natural heat dissipation.

Product function

Wide voltage Input	85-265Vac, 47-63Hz wide range of input, minimum operating voltage up to 75Vac, universal
Intelligent management	Bluetooth function, through the mobile phone APP can manage the charger status, mode, switching charging profile, view the charging diary
CANBUS	CANBUS communication function, (auxiliary source band isolation) lithium battery or lead acid can be charged, no need to distinguish the model, and support remote OTA
Battery repair function	The repair Profile can be customized, and the APP also supports setting the charger as an adjustable power supply, and the voltage and current can be set separately to pull up the voltage of the overdischarged battery (single/whole group)
Digital display	Digital display of AC voltage, output voltage, current, charging SOC percentage, intuitive,understanding of charging status
Protection	Surge high voltage 420Vac is not damaged, with high/low voltage, short circuit, high/low temperature, battery high temperature, reverse and other protection functions
Size	Product size: 359Lx238Wx100H, unit mm

Application scenarios







PRODUCT INTRODUCTION



6400W High power charger

AIC8080 80A 80V

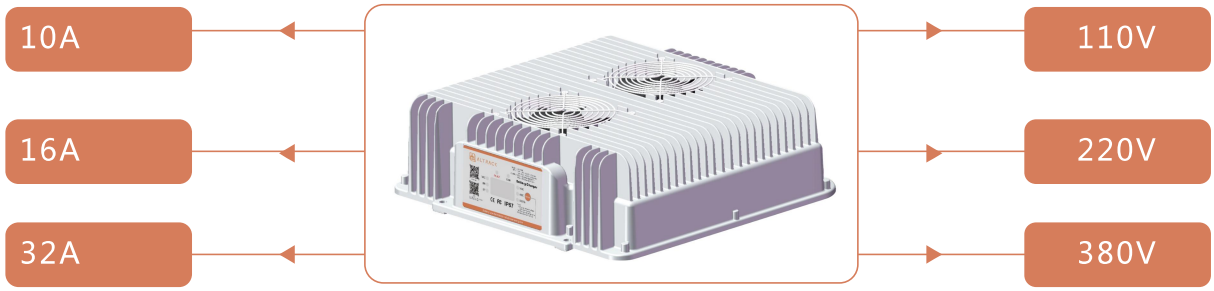
AIC10048 100A 48V

Input-110V/220V/380V Support

Intertek

Meet different site use scenarios

Can be customized to support three-phase four-wire system or three-phase five-wire system input



Selector switch

Three gear power

Wide voltage input range 85-265V, suitable for global input voltage

Digital display Digital display AC voltage, output voltage, current, charging SOC percentage, the indicator features are rich and intuitive, equipped with external lights as well as digital display lights



Bluetooth Bluetooth function, through the mobile phone APP can manage the charger status, mode, switching charging profile, view the charging diary

CANBUS CAN isolate 12V 5A, lithium or lead-acid can be charged, no need to distinguish the model, support remote OTA

Battery repair function , The repair Profile can be customized, and the APP also supports setting the charger as an adjustable power supply, and the voltage and current can be set separately to pull up the voltage of the overdischarged battery (single/whole group)

Size Product size: 356Wx265Lx115H, unit: mm

SMART Bluetooth APP-Super Convenient

Scan the QR code on the charger and download the Altrack APP

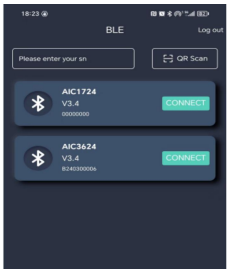
01

APP

安充重工

02

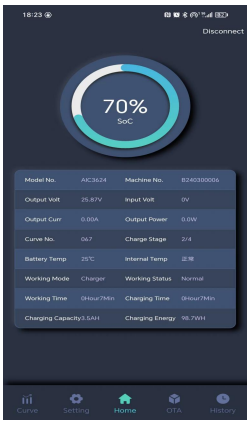
Open the mobile phone Bluetooth login APP to connect the charger



03

Home interface:

SOC (voltage, current, proile number, machine number, internal temperature, charging time, etc.

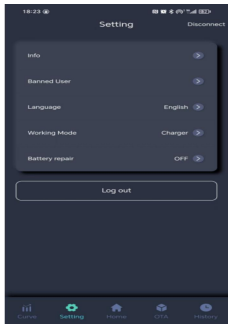




04

Setting interface

Language can be set, CN/EN
The power mode can be set to set the voltage and current, effectively charge and repair the overdischarge battery



05

Curve interface

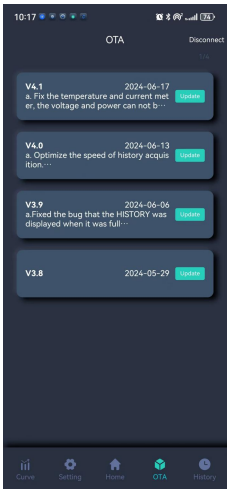
Charging profile library has a hundred applicable charging profile to choose from, customers can switch profile



06

OTA interface

You can upgrade the latest firm ware remotely

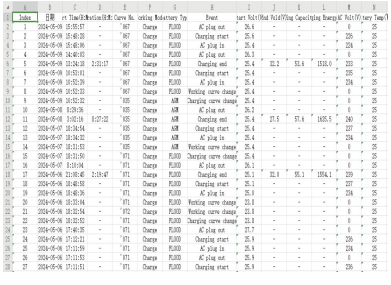


07

History interface

APP visually view the charg ing diary data, and track the charging habits and power consumption condit ions of end customers





18 Years of Experience in the Research

Core team	FromChinaElectronicsGroup,ChinaZhenhuaGroup,EmersonandmilitaryPower ResearchInstitute
Applicatio	Aerospace, ships, weapons, nuclear industry, missiles, shipborne, airborne Tanks satellites and other fields
Product Feature	High reliability, high consistency, high power density, high manufacturability, in line with national military standards

1/2 :100-400 W



2X1:10-60 W



1/4 :50-200 W



2X1: 10-60 W



DC-DC



- Module power supply application customers

ENTERPRISE MANAGEMENT SYSTEM

MODULAR

Advanced management system

ERP/MES/ENG/LOG

The production information management system of the production execution layer records the entire value-added process of the enterprise from raw materials entering the factory to the fin al formation of products leaving the factory, and the system realizes information sharing, infor mation tracking collaborative manufacturing and collaborative



ENG development management system



Altrack management system



ERP&MES



ERP



MES

Our Customers

















宏信设备











The battery brand we collaborate with

lead batteries：HOPPECKE，TROJAN，LEOCH，QUIMON，CHILWEE，TIANNENG，SACREDSUN，discover, Fullriver，ENERSYS，WANYANG，XUPAI,CAMEL

Lithium battery：EVE，GEM ，YE，Weichai Power，Ganfeng

INTERNAL ENVIRONMENT OF FACTORY



Office





R&D

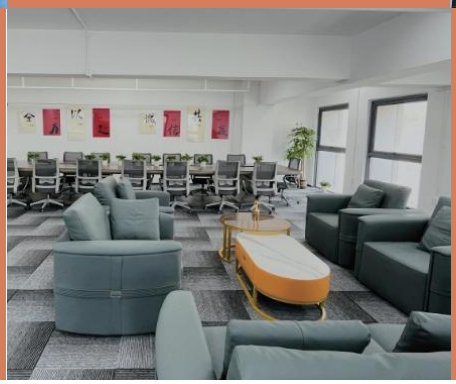
Production center



Meeting room



Test Center

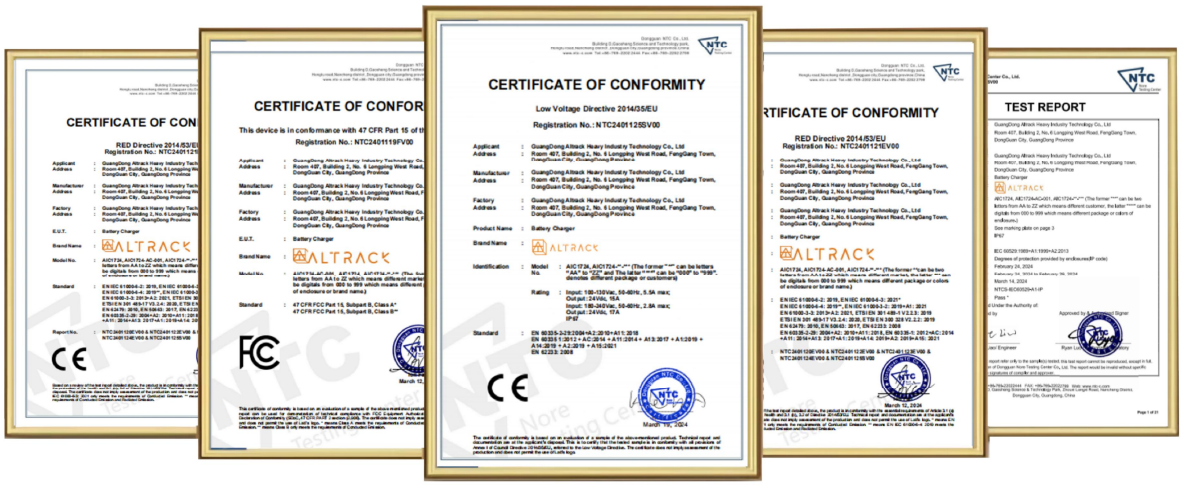


Showroom

ENTERPRISE QUALIFICATION

Obtained a number of invention patents in the field of charging and the use of new patents, appearance patents





The charger has been issued by professional institutions: cETLus, CE, FCC, CB, IP67 certifications, and has obtained a number of test qualification reports

APPLICATION AREAS



Car electronics



Weapons



Ship



Electronics

Module power supply

ALTRACK

充电器



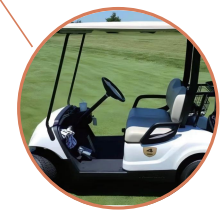
Boom lift



Scissor lift



forklift



Golf cart



Washing machines



Quality builds trust

Charger for harsh working conditions

To be the most reliable manufacturer in the field of charging

Guangdong Altrack Heavy Industry Technology Co., Ltd.

6 Longping West Road, Fenggang Town, Dongguan City, Guangdong Province

Sandy.Li

18820749901