



Professional Industrial Battery charger Manufacturer

Welcome to Our Firm



Our Office



Customize Charge Solution Supplier

Young Energy is one of the top industrial EV charging equipment manufacturer in China. Our main products are battery chargers, energy feedback system, DC converters, battery discharging indicators, wire harness, as well as vehicle accelerator etc. All our chargers fulfill environmental certificates and legal and technical requirements in safety mandated by the European Union and USA or other countries. To better serve as a humanized supplier, besides taking OEM orders, we also provide overall solution for the core parts of new energy vehicle.

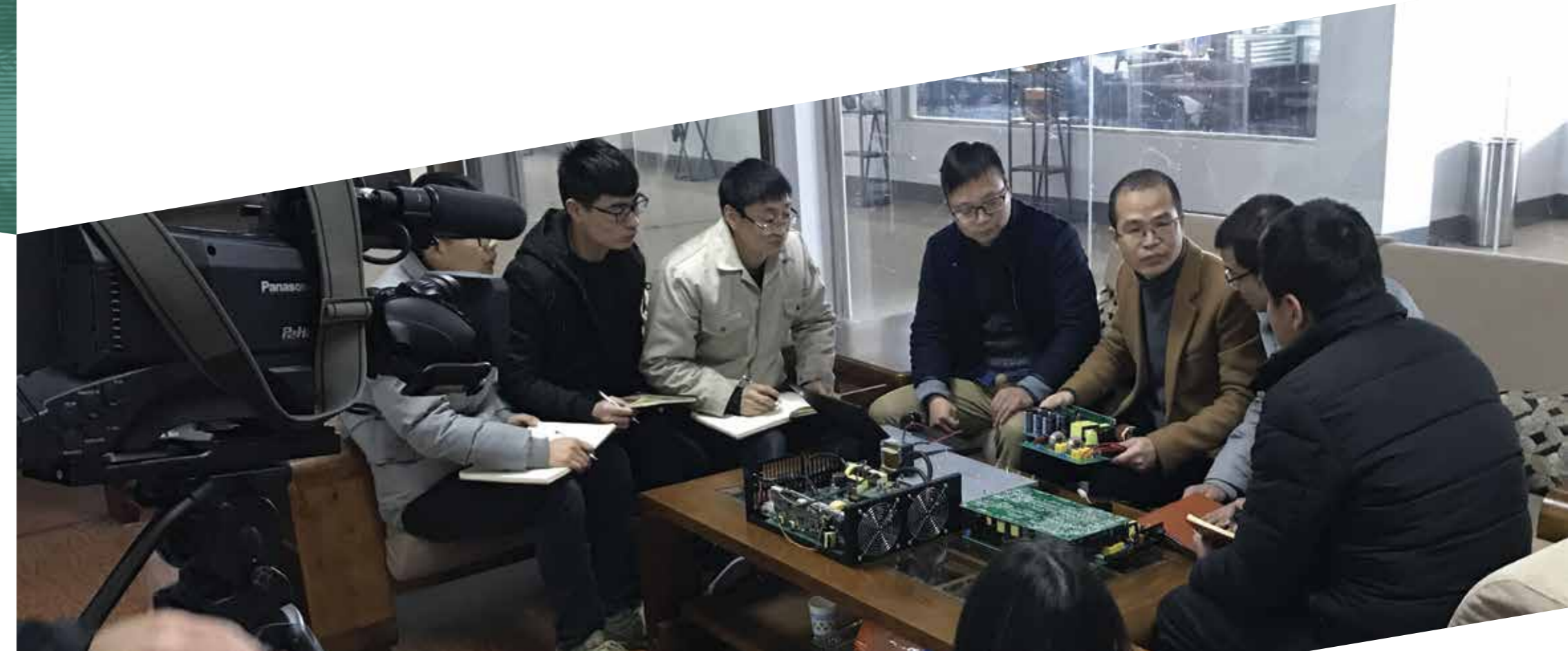
As a professional technology company, we have 1,000 m2 research center, more than sixteen patents and innovation. Our company have been awarded the certificate of ISO9001:2015 Quality System and CE, TUV, UL safety certificates. The production capacity is 15,000-20,000 units per month. We have

first level technology, persisting in chasing high performance both for quality and customer experience. More than 30,000 units quantity proved up to 99.8% quality stability. Our annual amount for last year is 10 Million USD, this data will increase 50% in the new year.

With over 10 years of production experience, good credit and excellent service, we have established long term cooperative relationships with numbers of enterprises. Current and past global strategic clients include Jungheinrich (German), Bishamon (Japan), Bigjoe (USA) and so on.

Our Benefits

- Long life expectancy and proven in service record
- Designed for use in harsh conditions
- Smart modular design for simple and cost effective
- Highest efficiency, up to 97%
- Fast and simple installation, plug and play
- Cost effective spare parts philosophy
- Large range of chargers to match your application and optimise efficiency



The Main Products

12V Series

ESCH12V4A
ESCH12V8A
ESCH12V10A
ESCH12V12A
ESCH12V15A
ESCH12V20A

24V Series

ESCH24V4A
ESCH24V8A
ESCH24V10A
ESCH24V12A
ESCH24V15A
ESCH24V20A
ESCH24V25A
ESCH24V30A
ESCH24V40A
ESCH24V50A
ESCH24V60A
ESCH24V80A
ESCH24V100A

36V Series

ESCH36V100A
ESCH36V120A
ESCH36V140A
ESCH36V150A

48V Series

ESCH48V10A
ESCH48V15A
YECH48V25A
ESCH48V30A
ESCH48V40A
ESCH48V50A
ESCH48V60A
ESCH48V80A
ESCH48V100A

80V Series

ESCH80V60A
ESCH80V100A
ESCH80V150A
ESCH80V200A

Lithium Batter charger

YNCH24V10A
YNCH48V100A
YNCH48V200A
YNCH80V200A

Other

Customize parts

DC Converter
Battery Discharge Indicator
Wire Harness
Energy Feeder Back System

Products Application



Charger

For Different Application

	Chargers for MHE			Chargers for Utility and Low-speed Electric Vehicles			Chargers for Aerial work Platforms			Chargers for Electric Golf Cars		Chargers for Electric Cleaning Sweeper and Washing Vehicle			Chargers for Electric power sports machines		
Machine category	Fork Lift	Pallet Walkies	Pallet Jacks	Utility Vehicles	Electric mowers & Grounds maintenance equipments	Low-speed electric vehicles	Scissor lifts	Boom Lifts	Hybird boom lifts	Fleet golf cars	Specialty golf	Scrubbers/Scubber-driers	Battery-powered sweepers	Burnishers	Motorcycles	Scooters/E-bikes/ Trikes	Utility vehicles, quadricycles
Application description	Heavy materials loaders and movers in warehouses, shipping depots, etc.	Light-duty material handling application	Light-duty material handling applications in larger facilities. Larger battery pack capacity and lifting capability	Vehicles for carrying materials, people or maintenance items around indoor and outdoor work sites	Equipment for cutting and maintaining grass, plants and ground	Small electric vehicles (including quadricycles), often sold in large numbers in developing markets as an alternative to automobiles	Aerial platforms for work at height	Aerial platforms for higher work than with scissor lifts	Hybird diesel/ electric power for longer run times, inside/ outside work	Vehicles for carrying people and clubs around golf courses	Utility vehicles for carrying maintenance items around the course	Floor cleaning machines for scrubbing and drying interior floor surfaces. Chargers can be exposed to dust and cleaning fluid spillage	Industrial or urban cleaning machines to remove debris, including walk-behind and rider-sweepers	Burnishing and polishing machines for facilities with solid floors. User cares about completion- battery life is important	Electric motorcycles with similar speed and handling to gas-powered motorcycles	Industrial or urban cleaning machines to remove debris, including walk-behind and rider-sweepers	Lower-speed electric scooters and e-bikes used in large urban centers
Battery pack voltage	24V/36V/48V/80V	12V/24V	24V	36V/48V	48V	48V	24V	48V	48V	48V	36V/48V	24V/36V			72V	48V	48V/72V
Battery pack capacity	200-800Ah	50-250AH	225-800Ah	150-300AH	100AH	150-300AH	225AH	300-400AH	300-400AH	150-180AH	180-250AH	150-300AH			10-100AH	50-200AH	150-300AH

Charger

12V Series

Intelligent protection design:

- Over current limit
- Output short circuit protection
- Reverse connect protection
- Over voltage protection
- Temperature compensation
- Customize charge profile

- Can make up to IP67 waterproof design
- Customize cable & connector according different market and application
- CE, UL, CEC certified



Model	Max Output Current	Max Output Power	Input Vol Range	Max Efficiency	Cooling Model	Dimensions L*W*H(mm)	Input Under Protection (VAC)	Output over-voltage Protection (VDC)
ESCH12V4A	4A	60W	100V-265V	93%	Air	128*123*65mm	<185V	16.5V±1
ESCH12V8A	8A	120W	100V-265V	93%	Air	128*123*65mm	<185V	16.5V±1
ESCH12V10A	10A	150W	100V-265V	93%	Air	128*123*65mm	<185V	16.5V±1
ESCH12V12A	12A	180W	100V-265V	93%	Air	128*123*102mm	<90V	31V±1
ESCH12V15A	15A	225W	100V-265V	93%	Air	128*123*102mm	<90V	31V±1
ESCH12V20A	20A	300W	100V-265V	93%	Air	128*123*102mm	<90V	31V±1

12V SERIES PRODUCT OVERVIEW:

- Charger integrates active power factor correction (PFC), can achieve zero pollution of the power grid and avoid the impact of large current grid.
- Input voltage range is very wide, AC100V-AC265V, suitable for any region's voltage level of the world, have a great convenience for the power grid fluctuations and vehicle exports.
- The efficiency is very high, can reach more than 93%, the traditional charger can only reach about 80%.
- The intelligent temperature compensation function of the charging process can avoid the damage caused by the over charger or under charge of the battery, and the service life of the battery can be prolonged.
- Do the internal charger seismic processing, seismic grade up to SAEJ1378, fully meet the electric vehicle-using standard.
- Use the LLC resonance technology, whole charging processing working under soft switching condition, with the less heating of the whole machine.

Product Features:

- Sing Chip Microcomputer (SCM) according to the lead-acid batteries tolerance current capacity, life curve ,gas analysis point and other information to complete the full charge of the whole process.
- With the environmental temperature compensation function, to ensure that the temperature of the weather conditions, can automatically resist over-charge and under-charge.
- With pulse charging function, the battery is filled with the premise of ensuing the best life of the battery.
- After three paint processing and dustproof design, the reliability of the operation is improved.
- With digital display function, can display online charging current, voltage, charging time.

Charger 24V Series

Intelligent protection design:

- Over current limit
- Output short circuit protection
- Reverse connect protection
- Over voltage protection
- Temperature compensation
- Customize charge profile



- Can make up to IP67 waterproof design
- Customize cable & connector according different market and application
- CE, UL, CEC certified



Model	Max Output Current	Max Output Power	Input Vol Range	Max Efficiency	Cooling Model	Dimensions L*W*H(mm)	Input Under Protection (VAC)	Output over-voltage Protection (VDC)
ESCH24V4A	4A	120W	100V-265V	93%	Air	128*123*102mm	<90V	31V±1
ESCH24V8A	8A	240W	100V-265V			182*123*102mm	<90V	31V±1
ESCH24V10A	10A	300W	100V-265V			182*123*102mm	<90V	31V±1
ESCH24V12A	12A	360W	100V-265V			182*123*102mm	<90V	31V±1
ESCH24V15A	15A	450W	100V-265V			182*123*102mm	<90V	31V±1
ESCH24V20A	20A	600W	100V-265V		Fan	193*123*102mm	<90V	31V±1
ESCH24V25A	25A	750W	100V-265V			213*123*102mm	<90V	65V±1
ESCH24V30A	30A	900W	100V-265V			353*204*172mm	<90V	65V±1
ESCH24V40A	40A	1200W	185V-265V			353*204*172mm	<185V	31V±1
ESCH24V50A	50A	1500W	185V-266V			353*204*172mm	<185V	31V±1
ESCH24V60A	60A	1800W	185V-267V			353*204*172mm	<185V	31V±1
ESCH24V80A	80A	2400W	185V-268V			353*204*172mm	<185V	31V±1
ESCH24V100A	100A	3000W	185V-269V			353*204*172mm	<185V	31V±1

24V SERIES PRODUCT OVERVIEW:

- Charger integrates active power factor correction (PFC), can achieve zero pollution of the power grid and avoid the impact of large current grid.
- Input voltage range is very wide, AC100V-AC265V, suitable for any region's voltage level of the world, have a great convenience for the power grid fluctuations and vehicle exports.
- The efficiency is very high, can reach more than 93%, the traditional charger can only reach about 80%.
- The intelligent temperature compensation function of the charging process can avoid the damage caused by the over charger or under charge of the battery, and the service life of the battery can be prolonged.
- Do the internal charger seismic processing, seismic grade up to SAEJ1378, fully meet the electric vehicle-using standard.
- Use the LLC resonance technology, whole charging processing working under soft switching condition, with the less heating of the whole machine.

Product Features:

- Sing Chip Microcomputer (SCM) according to the lead-acid batteries tolerance current capacity, life curve ,gas analysis point and other information to complete the full charge of the whole process.
- With the environmental temperature compensation function, to ensure that the temperature of the weather conditions, can automatically resist over-charge and under-charge.
- With pulse charging function, the battery is filled with the premise of ensuing the best life of the battery.
- After three paint processing and dustproof design, the reliability of the operation is improved.
- With digital display function, can display online charging current, voltage, charging time.

Charger

48V Series

Intelligent protection design:

- Over current limit
- Output short circuit protection
- Reverse connect protection
- Over voltage protection
- Temperature compensation
- Customize charge profile



- Customize cable & connector according different market and application

Model	Max Output Current	Max Output Power	Input Vol Range	Max Efficiency	Cooling Model	Dimensions L*W*H(mm)	Input Under Protection (VAC)	Output over-voltage Protection (VDC)
YNCH48V10A	10A	592W	185-265V	90%	Fan	223*123*98mm	<185V	31V±1
YNCH48V15A	15A	888		95%		223*123*98mm		
YECH48V25A	25A	≤2200W		93%		282*168*114mm		
ESCH48V30A	30A	1800W		349*227*188mm				
ESCH48V40A	40A	2400W	185-265V OR 380V±10%	97%		349*227*188mm	<284-304V	65V±1
ESCH48V50A	50A	3000W-3300W				386*169*360mm		
ESCH48V65A	65A	3965W	380V±10%			386*169*360mm		
ESCH48V80A	80A	5040W				386*169*360mm		
ESCH48V100A	100A	6000W		386*169*360mm				

48V SERIES PRODUCT OVERVIEW:

- Charger integrates active power factor correction(PFC),can achieve zero pollution of the power grid and avoid the impact of large current grid.
- It has wide AC input ranged strong adaptability.
- The module has perfect protection functions such as protection for the input under-voltage or over-voltage, the lack of input phase, output over current, output over-voltage, output short circuit, output isolation protection, and module overheating.
- The soft-switching full-bridge PWM technology controlled by the latest mixed mode is adopted to overcome the shortcomings that traditional full-bridge phase-shift circuit circulation loss is great and secondary side diodes working condition is poor. The secondary side diodes realize soft recovery, enable the module to obtain higher efficiency in a wide range of input voltage and load range.
- The maximum efficiency is close to 97%, the electromagnetic interference is also greatly reduced, and the volume/weight is greatly reduced.
- Improved thermal design, more uniform thermal distribution.
- A more perfect circuit board using anti-dust and anti-moisture treatment.

Product Features:

- Single Chip Microcomputer (SCM) according to the lead-acid batteries tolerance current capacity, life curve, gas analysis point and other information to complete the full charge of the whole process.
- The battery having the environmental temperature compensation function to ensure that the temperature of the weather conditions, can automatically resist over-charge and under-charge.
- With pulse charging function, the battery is filled with the premise of ensuring the best life of the battery.
- The battery also has manual EQU charging function.
- After three paint processing and dustproof design, the reliability of the operation is improved.
- With digital display function, it can display online charging current, voltage ,and charging time.
- The charger can be wall mounted.

Charger

80V Series



Model	Max Output Current	Max Output Power	Input Vol Range	Max Efficiency	Cooling Model	Dimensions L*W*H(mm)	Input Under Protection (VAC)	Output over-voltage Protection (VDC)
ESCH80V60A	60A	6000W	380V±10%	90%	Fan	386*169*360mm	<284-304V	65V±1
ESCH80V100A	100A	8000W				CUSTOMIZABLE		110V
ESCH80V150A	150A	12000W						
ESCH80V200A	200A	16000W						

- Customize cable & connector according different market and application

Charger

Lithium Battery Series

Intelligent protection design:

- Over current limit
- Output short circuit protection
- Reverse connect protection
- Over voltage protection
- Temperature compensation
- Customize charge profile

CHARGER SPECIFICATION

DC Output	
Lithium charging voltage	58.8V
Lithium cells in series	4.2V
Maximum DC output voltage	58.8V
Maximum DC output current	100A
Maximum DC output power	6KW
Maximum dry contact current rating	320A
reverse polarity	support
short circuit	support
AC Input	
AC input voltage range	304-456VAC
Nominal AC input frequency	45-65Hz
Maximum AC input current	≤10A
Nominal AC power factor	≥0.92
Efficiency	≥96%
Enclosure (防水等级)	
Anti-shock & Vibration grade (抗震等级)	
Mechanical	
Dimensions	386*169*360(mm)
Weight	10KG
cooling	Air cooling
Operating Temperature	-25-45 °C
Storage Temperature	-40-70 °C

Model	Max Output Current	Max Output Power	Input Vol Range	Max Efficiency	Cooling Model	Dimensions L*W*H(mm)	Input Under Protection (VAC)	Output over-voltage Protection (VDC)
YNCH24V10A	10A	300W	185V-265V	85%	Fan	127*123*65mm	<185V	33V
YNCH48V100A	100A	6KW	304-456VAC	96%	Air	386*169*360mm		
YNCH48V200A	200A	12KW	304-456VAC	92%		400*415*500mm		
YNCH80V200A	200A	18KW	304-456VAC			455*495*540mm		

Other Electric Core Parts



Battery Discharge Indicator



Dc Converter



Energy Feed Back System



Wire Harness



Hydraulic Power Unit

Packaging and Delievery



Honer And Partners

Honor is a period of history, a witness, embodied all the efforts of the Young Energy. Honor is an appreciation, a spur, so that we face the confidence of the road, laughing on the competition. Honor is our heavy harvest, let us have a better vision of the future.



ISO9001

UL

PATENT

PATENT

PATENT

PATENT

PATENT



CEC

CE

TUV

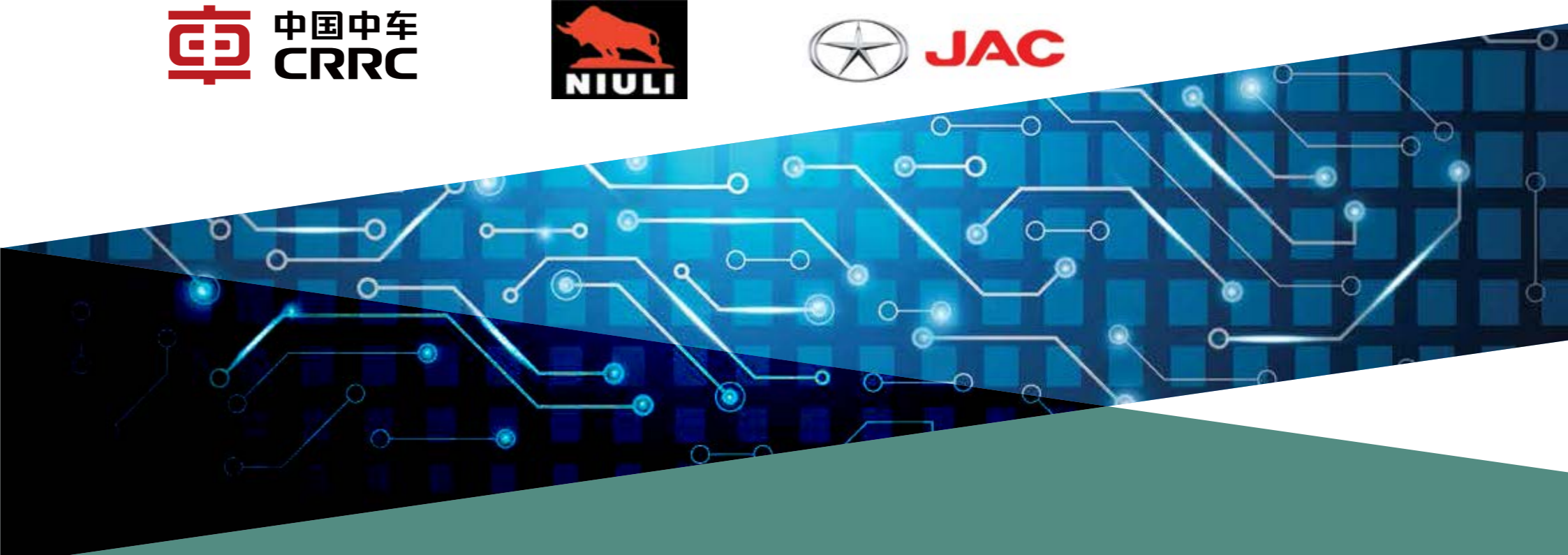
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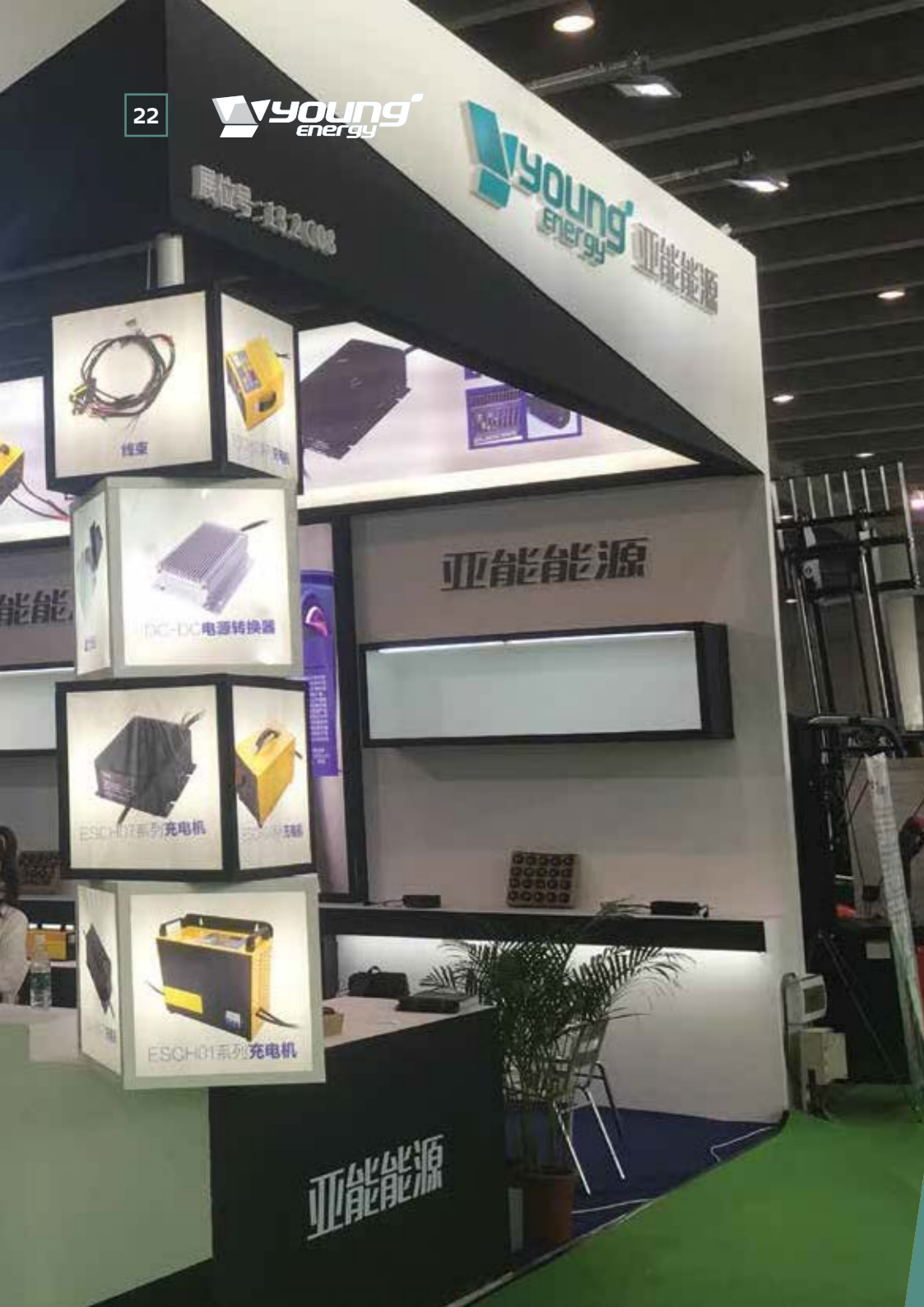
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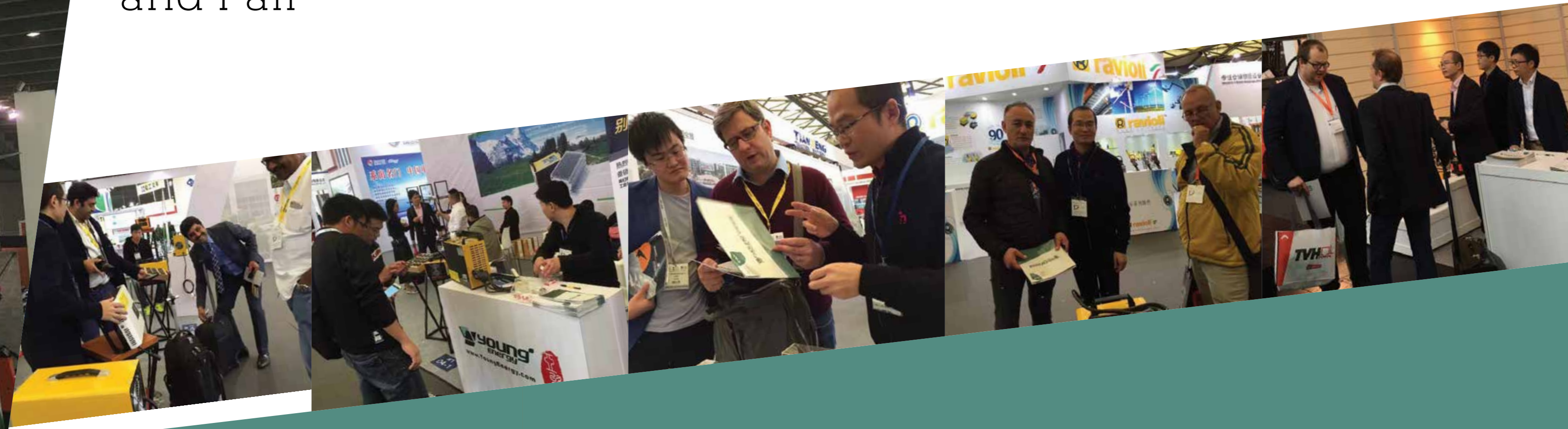
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PARTNER: Young Energy will maintain openness, cooperation, win-win philosophy, business cooperation as the core, supported by technical cooperation and human resources, and cooperate with partners to create vibrant ecology.





Marketing and Fair



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