

EV CHARGING SOLUTION

NEW ENERGY
SAVE WORLD

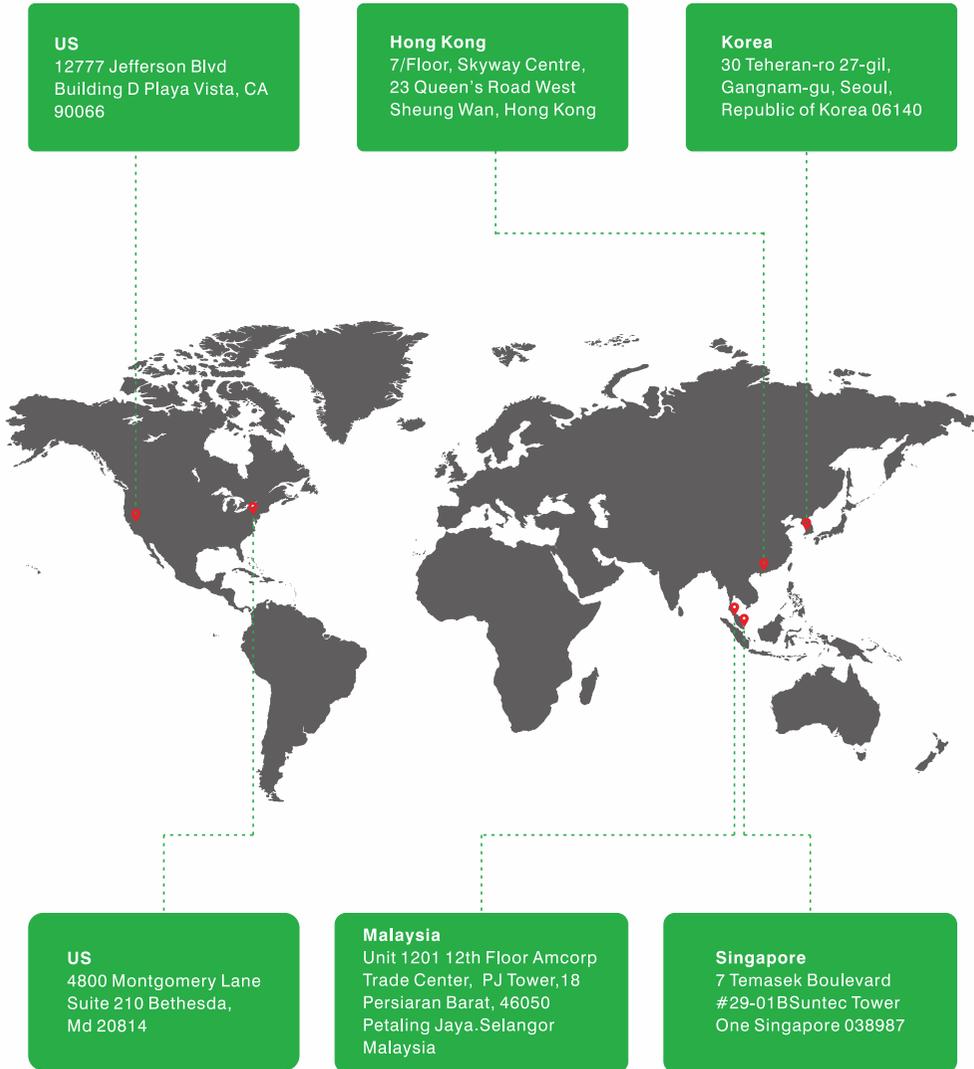
www.new-energyap.com



NEW ENERGY ASIA PACIFIC CO., LTD.



“We’re Changing the Way
the World Thinks About
Machinery”



New Energy Asia Pacific Co., Ltd

as part of the effort to make construction more sustainable, we are rolling out all-electric versions of traditional construction vehicles. Electric construction equipment isn’t a new concept. Hybrid electric machines have been available for years, and all-electric models of excavators, loaders, dump truck and other heavy machinery are currently available over the world. In coming years, electric heavy machinery will join the ranks of electric cars and public transportation as an eco-friendly alternative, it will be the push for sustainable construction practices intensifie.





FLEXIBILITY

Free combination of 4 standards serving all electric vehicles

GB/T connectors for Chinese cars
CCS connectors for American and EU cars
CHAdeMO connectors for Japanese cars
AC Plug for early EV and hybrid cars



SAFETY

Independently certified and 3rd party tested according to relevant electrical safety standards



RELIABILITY

Multiple power modules ensures continued operation in the event of single component failure



INNOVATIVE

Always ready for the next generation of EVs, including trucks, vans and other special vehicles, with up to 1000V higher voltage output



WALL BOX CHARGER

OUTPUT	
Rated Power	7.3 kW
Rated Current	32 A
Charging Connector	Type 2
Over Current Protection	35.2 A
Over Voltage Protection	253 VAC
Cable Length	Nominal 3.5 meters
INPUT	
Power Connection	L + N + PE
Voltage	230 VAC ± 10%
Frequency	50/60 Hz
Input Under-voltage Protection	207 VAC
Leak Current Protection	Type A : 30 mA DC: 6 mA
OTHERS	
HMI Interface	4.3 inch LCD Touch Screen
	Standby : steady white light
	Plug in : steady purple
Signal Indicator	Charging : shining blue light
	Charging Completed : steady green light
	Alarming : steady red light
Safety Standards	IEC 61851
Back-end Communication protocol	OCPP 1.6
RFID system	ISO 14443A, MIFARE DESFire EV1
Internet Connection	4G, Ethernet, Wi-Fi (Optional)
Energy Meter	EU MID Approved Energy meter
Certification	CE
Dimension	285*150*410mm (W*D*H)
Weight	8kg



Wall Mount



Pedestel Mount

OUTPUT	
Rated Power	22 kW
Rated Current	32 A (3P)
Charging Connector	Type 2 (3P)
Over Current Protection	35.2 A
Over Voltage Protection	253 VAC
Cable Length	Nominal 3.5 meters
INPUT	
Power Connection	3P + N + PE (L1,L2,L3,N,PE)
Voltage	400 VAC ± 10%
Frequency	50/60 Hz
Input Under-voltage Protection	207 VAC
Leak Current Protection	Type A : 30 mA DC: 6 mA
OTHERS	
HMI Interface	4.3 inch LCD Touch Screen
	Standby : steady white light
	Plug in : steady purple
Signal Indicator	Charging : shining blue light
	Charging Completed : steady green light
	Alarming : steady red light
Safety Standards	IEC 61851
Back-end Communication protocol	OCPP 1.6
RFID system	ISO 14443A, MIFARE DESFire EV1
Internet Connection	4G, Ethernet, Wi-Fi (Optional)
Energy Meter	EU MID Approved Energy meter
Certification	CE

Note: Due to technological improvements, the above data are subject to change without prior notice.

HIGH POWER CHARGER

OUTPUT				
Rated Power	90 kW	120 kW	150 kW	180 kW
Voltage	200 - 1000 VDC			
Max. Current	200A			
Cable Length	Nominal 5 meters			
INPUT				
Rated Current	130A	175A	220A	260A
Power Connection	3Ph + N + PE (L1,L2,L3,N,PE)			
Voltage	400 VAC ± 10%			
Frequency	50/60 Hz			
Power Factor	0.98 (full load)			
Efficiency	95% (full load)			
OTHERS				
HMI Interface	7 inch LCD Touch Screen			
Signal Indicator	Green (Power Light) , Red (Charge Light) , Orange (Fault Light)			
Connector Standard	IEC 62196 (Combo CCS 2)			
Safety Standards	EN 61851-23:2014 & EN 61851-1:2010 IEC 6185101:2017			
EMC Standards	IEC 61851021-2:2018			
EV Compliance	DIN 70121 / ISO 15118			
Back-end Communication protocol	OCPP 1.6			
RFID system	ISO 14443A, MIFARE DESFire EV1			
Internet Connection	4G, Ethernet			
Certification	CE			
Dimension	750*750*1800mm (W*D*H)			
Weight	300kg			



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ULTRA-FAST CHARGER

OUTPUT			
Charging Power	240 kW	300 kW	360 kW
Voltage Range	150 - 1000 VDC		
Max. Current	250A*2		
Voltage Accuracy	95.5%		
Current Accuracy	90%		
Cable Length	Nominal 5 meters		
INPUT			
Voltage	400 VAC ± 15%		
Power Connection	3P + N + PE		
Max. Current	438A	574A	657A
Frequency	45 - 65 Hz		
Power Factor	0.98		
OTHERS			
HMI Interface	7 inch Touch Screen		
RFID	ISO 14443A, MIFARE		
Internet Connection	4G, Ethernet		
Cooling Method	Fan Cooling		
Protection Level	IP55		
Certification	CE		
Dimension	800*800*2000mm (W*D*H)		
Weight	720 kg		



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COMBO CHARGER

An integrated AC & DC Electric Vehicle Charging Station

OUTPUT			
Connector	AC Type 2	CCS 2	CHAdeMO
Charging Power	43 kW	60 kW	60 kW
Voltage	400 VAC ± 10%	200 - 750 VDC	200 - 500 VDC
Current	63A, 3 Phase	0 - 125 A	0 - 125 A
Efficiency	95.5%		
Connection Case	Case C		
Cable Length	Nominal 5 meters		
INPUT			
Voltage	400 VAC ± 10%		
Power Connection	3P + N + PE		
Frequency	50 / 60 Hz		
Power Factor	0.98		
THDi	5%		
OTHERS			
HMI Interface	7 inch Colour Touch Screen		
Payment Method	Credit Card, RFID card, Phone APP with backend		
Noise	65 dB		
Cooling Method	Forced Air Cool		
Protection Level	IP54		
Certification	CE		
Dimension	700*450*1900mm (W*D*H)		



DC fast charger supporting multiple standards:
AC Type 2, CCS 2, CHAdeMO.
Two simultaneous outputs: DC power up to 60kW (CCS2 or CHAdeMO), AC power up to 43 kW.

Reliable, robust, modular hardware.
Daylight readable touch screen display.
Supports open communication protocol OCPP 1.6 and up.

Low operational noise, low standby power consumption.
Simple, quick and easy installation.
Suitable for Indoor or Outdoor applications (IP54).

RFID authorization. Payment Option includes Credit Card, NFC, Smart-phone APP with Back-end.

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New Energy's Battery Swapping Station

Adopts the lateral battery swapping technology, which has the characteristics of small footprint, fast station construction, and flexible battery compartment configuration. The battery experience is friendly, and the power exchange efficiency is higher.

System Integration

Complete PACK and BMS development and manufacturing technology
Years of battery replacement technology accumulation
Self-developed automatic power exchange equipment

Side Battery Swapping

The battery replacement device grabs the battery from the side of the battery
Compatible with more pure electric vehicles
Currently replaceable rear mounted vehicle system
Long-term replaceable side-mounted battery

Intelligent Platform

Back-mounted vehicle battery swap system platform
Modularization and standardization of battery systems



5 minutes to change battery

Let customers feel the refueling experience

Low comprehensive cost

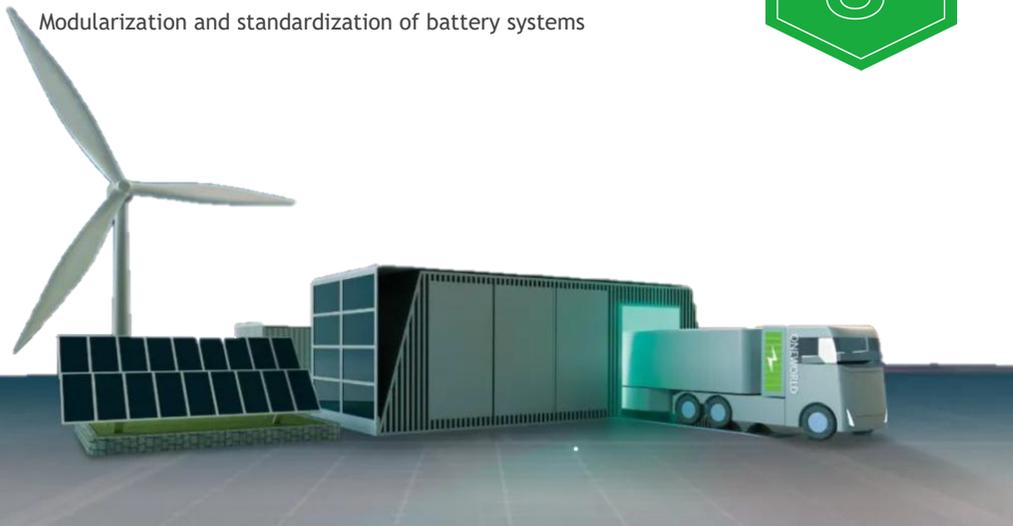
The battery swapping mode can save customers' operating time and significantly reduce the comprehensive cost of the whole life cycle. Higher mileage & Higher frequency of use, the economy will be more obviously.

Easy to build

The construction area of a single swap station is only 300 square meters; to serve the same number of vehicles, the power required for the swap mode is only a quarter of that for the charging mode.

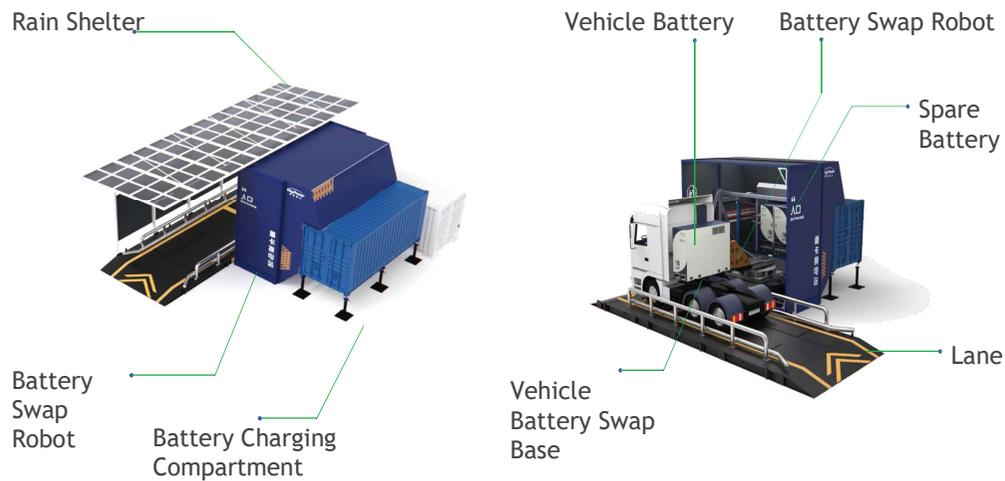
Long battery life

Battery will carry out long-term, stable and orderly concentrated energy replenishment at the swapping station, fully guaranteeing battery safety and effectively delaying battery attenuation.



MULTIPLE ADVANTAGES

BATTERY SWAPPING STATION STRUCTURE



1

Vehicle Identification

Identify the information of the battery replacement vehicle, exchange information with the vehicle and battery, guide the vehicle, and perform preliminary positioning.

2

Battery Swap Robot

Unlock the car base, precisely position the battery, automatically remove the empty battery, and load the full battery.

3

Storage Charging Compartment

Storage battery system, charging empty batteries, and battery monitoring and testing at the same time.

4

Monitoring Center

Configure fire protection system, UPS system (optional), video surveillance system, data server. Carry out all-round monitoring and data processing of the whole station, and can connect to the cloud server.

BATTERY SWAPPING PROCESS



1

TO STATION

Drive searches for the nearest charging station online through APP and navigates to station.

2

VERIFICATION

Verify vehicle battery health status & information such as ODO mileage, accumulated discharge power through bluetooth and battery replacement begins.



3

BATTERY SWAP

Automatically unlock the car base, precisely position the battery, automatically remove the empty battery, and load the full battery.

4

OUT STATION

5 mins complete battery swap and complete the payment operation through APP. Driver can out of the station without paying on spot.

Vehicle Intelligent Monitoring System

Applies global positioning, wireless communication, CAN analysis, video monitoring, face recognition and other technologies to realize the reading and storage of vehicle operating data, which can be used to detect engine failure and operating parameters, and realize remote video monitoring, providing positioning monitoring, remote data, engine failure warning and other functions for vehicles to ensure driving safety.



Face Recognition System

Driver can through the car alcohol tester for detection. During the detection process, the device records the whole detection process. After get Alcohol test pass information, the vehicle CAN releases the limit start switch at this time, the driver can start the vehicle normally and start driving the vehicle, the alcohol test results and video files are uploaded to the platform synchronously and form a report.



B10



Intelligent Scheduling



Video Surveillance



Driving Record



Remote Operation & Maintenance



Full HD Video



High Quality

Features

- ❖ 8-channel 1080P full HD video
- ❖ h265 encoding format, the video file is 30-40% smaller than h264, and the code stream is 30% smaller
- ❖ 2T hard disk + 256G SD card storage
- ❖ Driver's alcohol detection, video recording of alcohol detection process
- ❖ Multiple anti-vibration, adapt to complex road conditions
- ❖ Heat dissipation of the whole machine, dust-proof and anti-corrosion
- ❖ Support remote upgrade of equipment, batch upgrade, without special personnel on duty

Features

- ❖ Automatic exposure adjustment, Accurate recognition in various lighting environments such as strong light, dark light, and backlight.
- ❖ Built-in face dynamic detection algorithm, face tracking algorithm, face quality judgment algorithm, living body detection algorithm, face recognition algorithm
- ❖ Accurately recognize faces, the face recognition time is less than <300ms, the recognition accuracy rate is higher than 99%, and supports 0.3-1.5m recognition distance
- ❖ Data encryption: The system can have built-in asymmetric encryption, which requires a key file to be accessed, and data and pictures cannot be identified in the case of brute force cracking

