

# Energy storage and charging systems for electric vehicle



# Fast charging station

Application: public operations such as highway rest stops, petrol stations, airport, etc., private operations such as EV dealers, EV fleets, etc.

Compatible vehicles: BMW, Volkswagen, GM, Porsche, Audi, Nissan, Mitsubishi, Peugeot, Citroen, Kia, Renault, Daimler, Tesla, Smart, Mercedes



# Charger\_type

## MODE 1

Connection of the vehicle to the power supply network in AC with domestic connectors up to 16 A, type A differential protection with breaking device for DC earth fault current greater than 6 mA.



## MODE 2

Connection of the vehicle to the power supply network in AC with domestic or industrial connectors up to 32 A, type A differential protection with breaking device for direct earth fault current greater than 6 mA, control device on the cable.



## MODE 3

Connection of the vehicle to the power supply network in AC with dedicated connectors, type A differential protection with interruption device for direct earth fault current greater than 6 mA, control device in the station.



## MODE 4

Direct charging in direct current FAST DC Vehicle connection in direct current up to 200A, 400V. With this system it is possible to recharge the vehicles in a few minutes, the charger is external to the vehicle (in the column). There are two standards: **CHAdeMO** (Japanese) and **CCS Combo** (European).

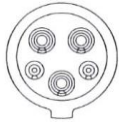


# Charging sockets

The reference standards for connectors dedicated to mode 3 are IEC 62196-1 and 2 and include three types of system:

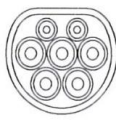
## TYPE 1

Single-phase, 2 pilot contacts, 32 A, 230 V ~



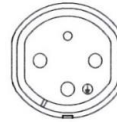
## TYPE 2

Single/Three-phases, 2 pilot contacts, 32 A 230/400 VAC



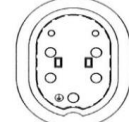
## TYPE 3A for light vehicles

Single-phase, 1 pilot contact, 16 A 230 VAC



## TYPE 3C for all vehicles

Single/Three-phases, 2 pilot contacts, 32 A 230/400 VAC



Connectors for DC charging:

## CHAdeMO

The CHAdeMO standard is the most widely used standard for **fast direct current (DC) charging** in the world.

Used and widespread for some years, it is present for example on **Nissan, Mitsubishi, Peugeot, Citroen** vehicles. Vehicles equipped with this standard therefore have two connectors:

- CHAdeMO for Fast DC charging
- AC charging connector (usually Type 1)



## CCS COMBO2

The Combined Charging System (CCS) standard consists of a single charging connector on the electric vehicle, which allows both fast direct current (DC) charging and slow alternating current (AC) charging.

In Europe the CCS is made starting from the Type 2 connector, for which the system is called Combo2. This system is now adopted by some European car manufacturers (e.g. **BMW** and **Volkswagen**).



# ATWB 7-22 kW AC charge station wall mounting for private use

The professional ATWB series charge station is able to charge the batteries of electric transport vehicles.

The ATWB Wall Box is available with type 2 socket cable or with integrated cable, with or without protections in the single-phase versions, with energy meter (optional) and three-phase.

It has, as standard, a selector to reduce the vehicle charge energy by 50%.

It is ideal for private use: garages, private parking spaces, condominiums, etc. that do not require access control as the use is normally limited to a few people, almost always for the exclusive use of the vehicle owners themselves



## Main features

- Charging station for wall installation
- Single-phase or three-phase 230-400 VAC power supply
- Max power 22 kW
- Possibility of automatic load adjustment

## Technical characteristics

Model	ATWB 7	ATWB 22
<b>AC Input</b>		
• Input voltage	230/400 VAC	
• Nominal current	16 A	32 A
• Nominal power	7,4 kW	22 kW
• Load current control	Through local selector, on / off input or 0 ÷ 10 Volt	
• Consumption stand-by	25 W	
• Measurable load	0,1÷64 A	
• Accuracy	Class 0,5 (MID) (optional)	
<b>General specifications</b>		
• Output	AC (Mode-3)	
• Charging socket	Type 2 or type 3A	
• RFID module	ISO/IEC14443A/B, Mifare (optional)	
• Remote connection	RS485 protocol MODBUS	
• Environment	Domestic	
• Operating temperature	-20÷+40°C	
• Storage temperature	-25÷+50°C	
• Operating humidity	≤95% non-condensing	
• Protection degree	IP44	
• Certifications	CE, EN 61439-7, EN 61851-1, LVD Directive 2014/35/UE, EMC Directive 2014/30/UE	

## Accessories

AT07820	2-20 AAC current relay as load limiter
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# ATWB 30 kW DC charge station wall mounting for private use

The ATWB30 series charge station is able to charge all current and next generation vehicles with the CCS2 standard.

The 30 kW Wall Box is a fast DC (direct current) charger with Mode 4 charging type.

It is ideal for the following installations: houses, car parks and businesses.

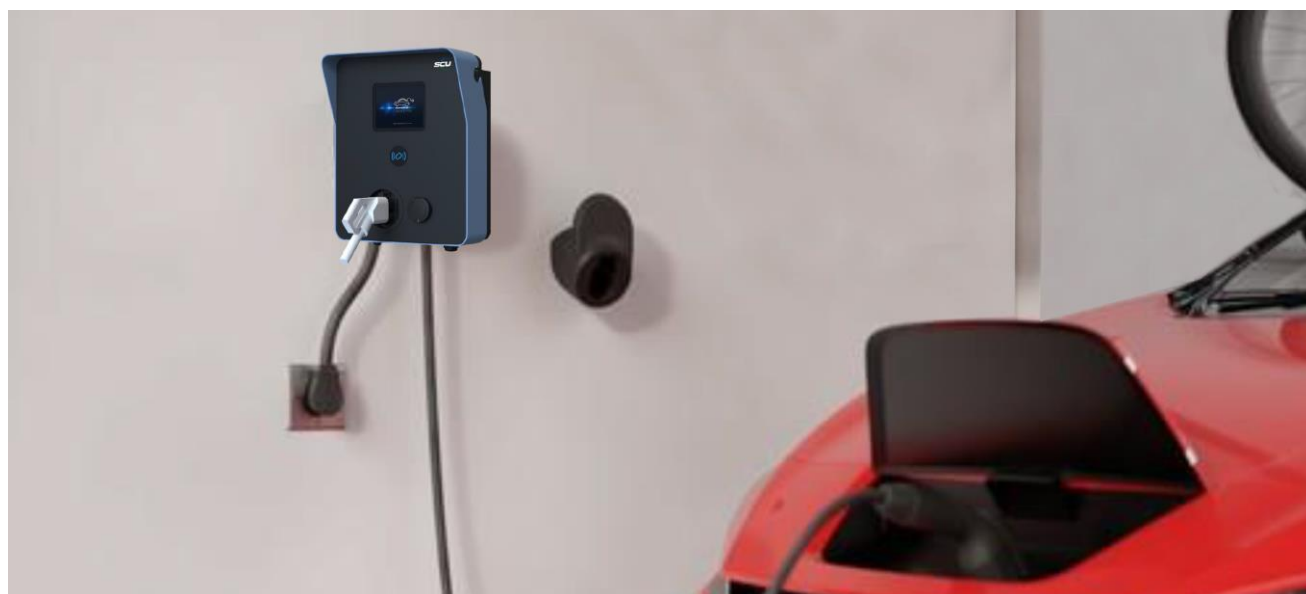
## Main features

- Charging station for wall installation
- Three-phase 400 VAC power supply
- Max power 30 kW
- CCS2 connector type
- OCPP protocol communication
- Small, compact, light
- Immediately ready for use
- Silent
- Power meter (optional)
- RFID reader (optional)



## Technical characteristics

Model	ATWB 30
<b>AC Input / Output DC</b>	
• Three-phase power	3P + N + PE
• Input voltage	400 VAC $\pm$ 20%
• Frequency	50 Hz o 60 Hz
• Power factor	> 0.99
• Efficiency	95%
• Output voltage	150-1000 VDC
• Nominal current	100 A, 30 kW max
• Nominal power	30 kW
<b>General specifications</b>	
• Output	DC (Mode-4)
• Output connector	CCS2
• Display	Color TFT
• RFID module	ISO/IEC14443A/B, Mifare (optional)
• Remote connection	LAN Standard, 4G/Wifi (optional)
• Communication protocol	OCPP 1.6
• Environment	Internal / External
• Operating temperature	-20 $\div$ +40°C
• Storage temperature	-40 $\div$ +70°C
• Operating humidity	$\leq$ 95%
• Altitude	Up to 1000 m
• Protection degree	IP54, IK10
• Noise	<55 dB
• Protections	Over current, under voltage, over voltage, residual current, surge protection, short circuit, over temperature, ground fault, isolation fault
• Certifications	CE, EN 61851, EN 62196, DIN 70121, ISO 15118





# ATWB possible configuration

ATWB														
VERSION	SINGLE	S												
	DOUBLE	D												
NOMINAL VOLTAGE	230 V		1											
	400 V		2											
MAX POWER	7 kW			1										
	22 kW			2										
	30 kW			3										
	44 kW			4										
CHARGING TYPE	MODE 1				1									
	MODE 2				2									
	MODE 3				3									
	MODE 1-3				4									
	MODE 4				5									
CHARGING SOCKET 1	ABSENT				0									
	TYPE 1				1									
	TYPE 2				2									
	TYPE 3				3									
	INDUSTRIAL 1				4									
	INDUSTRIAL 2				5									
	INDUSTRIAL 3				6									
	CCS2				7									
CHARGING SOCKET 2	ABSENT					0								
	TYPE 1					1								
	TYPE 2					2								
	TYPE 3					3								
	INDUSTRIAL 1					4								
	INDUSTRIAL 2					5								
	INDUSTRIAL 3					6								
RFID READER	YES							S						
	NO							N						
OCCP CONNECTION	YES								S					
	NO								N					
DIFFERENTIAL PROTECTION	YES									S				
	NO									N				
VISUALIZATION TYPE	ABSENT										N			
	COMPTOMETRIC										C			
	VOLUMETRIC										V			
	ALPHANUMERIC										A			
	TOUCH-SCREEN										T			
COUNTER	ABSENT											N		
	INDUSTRIAL											I		
	MID											M		
CABLE TYPE	ABSENT												0	
	SINGLE PHASE TYPE 1												1	
	SINGLE PHASE TYPE 2												2	
	THREE PHASE TYPE 2												3	
	DC CCS												4	
DISCHARGE	YES													S
	NO													N

➤ Standard models in price list in yellow.

# AT02-EF 22-44 kW AC fast charger for private use and fleet

The AT02-EF series dispenser is able to charge the batteries of electric transport vehicles.

The dispenser is made with a stainless steel structure and is equipped with 1 or 2 single or three phase Type 2 sockets of 7 or 22kW.

It offers the possibility of remote modulation of the charging power based on the energy currently available from the power supply system.

It is designed for connection to automation terminal and refueling authorization.

## Main features

- 230/400 VAC charger
- Uses charging mode 3 in accordance with IEC / EN 61851
- Backlit display and vandal-proof keyboard in self-service version
- Local or remote manual activation
- Authorization with OCPP connection available
- Authorization with next charge available



## AT02-EF possible configuration

AT02-EF																	
VERSION	SINGLE	S															
	DOUBLE	D															
NOMINAL VOLTAGE	230 V		1														
	400 V		2														
MAX POWER	11 kW			1													
	22 kW			2													
	44 kW			3													
CHARGING TYPE	MODE 1				1												
	MODE 2				2												
	MODE 3				3												
	MODE 1-3				4												
CHARGING SOCKET 1A	ABSENT					0											
	TYPE 1					1											
	TYPE 2					2											
	TYPE 3					3											
	INDUSTRIAL 1					4											
	INDUSTRIAL 2					5											
	INDUSTRIAL 3					6											
CHARGING SOCKET 1B	ABSENT						0										
	TYPE 1						1										
	TYPE 2						2										
	TYPE 3						3										
	INDUSTRIAL 1						4										
	INDUSTRIAL 2						5										
	INDUSTRIAL 3						6										
CHARGING SOCKET 2A	ABSENT							0									
	TYPE 1							1									
	TYPE 2							2									
	TYPE 3							3									
	INDUSTRIAL 1							4									
	INDUSTRIAL 2							5									
	INDUSTRIAL 3							6									
CHARGING SOCKET 2B	ABSENT								0								
	TYPE 1								1								
	TYPE 2								2								
	TYPE 3								3								
	INDUSTRIAL 1								4								
	INDUSTRIAL 2								5								
	INDUSTRIAL 3								6								
RFID READER	YES									S							
	NO									N							
OCPP CONNECTION	YES										S						
	NO										N						
6 mA DC/3 mA AC DIFFERENTIAL	YES											S					
	NO											N					
VISUALIZATION	ONE SIDE													M			
	TWO SIDE													B			
TYPE	COMPTOMETRIC															C	
	VOLUMETRIC															V	
	ALPHANUMERIC														A		
MODALITY	INDUSTRIAL																I
	MID																M

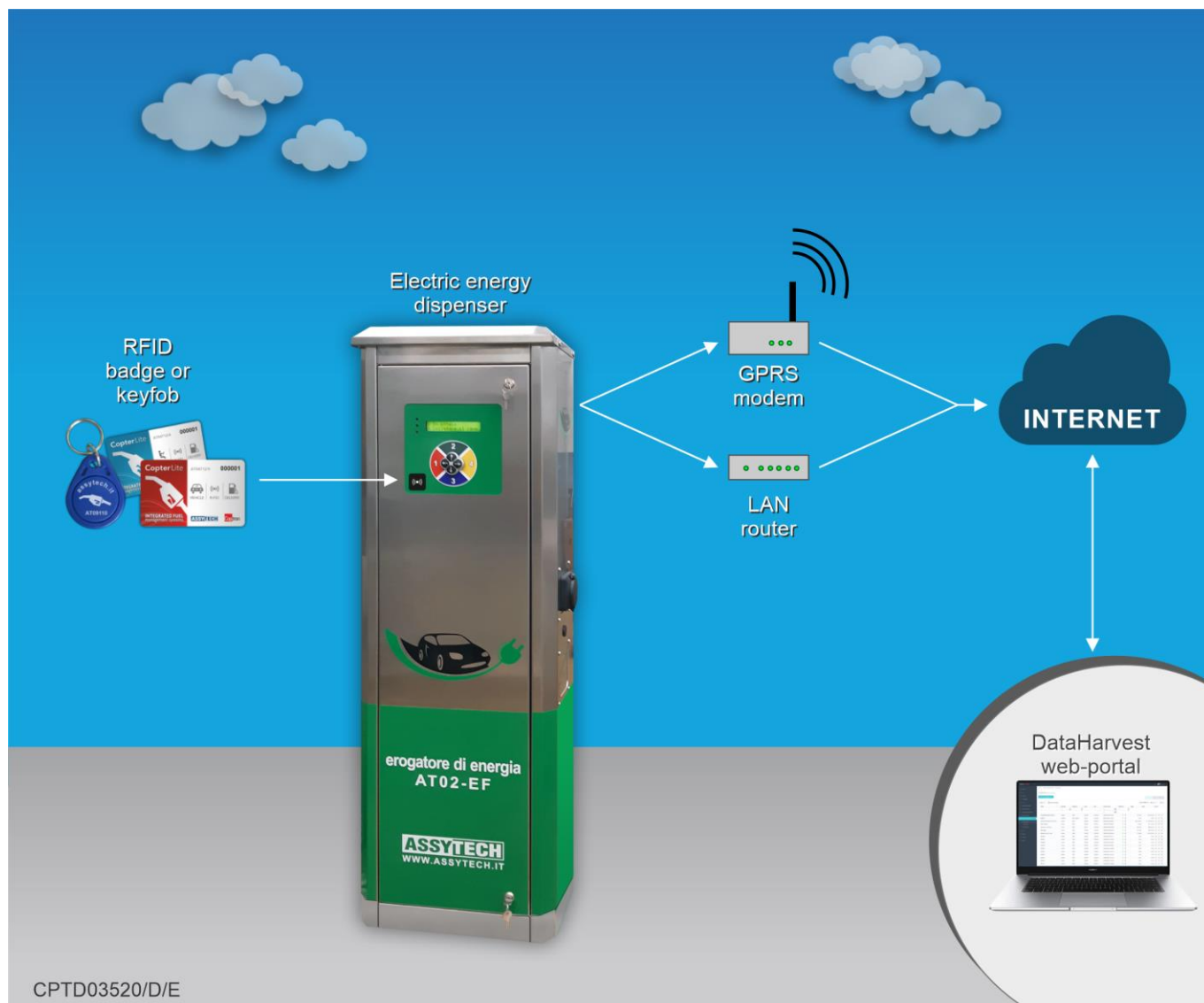
➤ Standard models in price list in yellow.

## Technical characteristics

Model	AT02-EF
<b>AC Input</b>	
• Input voltage	400 VAC
• Nominal power	7 / 14 kW / 22 kW / 44 kW (depending on the model)
• Nominal current	16 A / 32 A (depending on the model)
• Load current control	Programmable 2 ÷ 32 A
• Consumption stand-by	25 W
• Measurable load	0,1÷64 A
• Accuracy	Class 0,5 (MID)
<b>General specifications</b>	
• Display	Alphanumeric 2X20
• RFID module	ISO/IEC14443A/B, Mifare (optional)
• Remote connection	RS458 protocol MODBUS RTU /OCPP
• Environment	Indoor / Outdoor
• Operating temperature	-20÷+50°C
• Storage temperature	-25÷+60°C
• Operating humidity	≤95% non-condensing
• Protection degree	IP44
• Certifications	CE, EN 61439-7, EN 61851-1 LVD Directive 2014/35/UE EMC Directive 2014/30/UE

# Charging management ricarica

## Solution via DataHarvest Portal



# Solution via NextCharge Circuit



# AT02-EA 22-44 kW AC fast charger for service stations

The AT02-EA series dispenser is able to charge the batteries of electric transport vehicles. This electric charger can be associated with fuel and additive dispensers already used for the refueling of traditional vehicles.

The authorization to charge the vehicle is authorised by via serial connections or with transponder devices in various configurations depending on the customer's needs.



Comptometric display version



## Main features

- 230/400 VAC charger
- Uses charging mode 3 in accordance with IEC / EN 61851
- Backlit display and vandal-proof keyboard in self version
- Supports IFSF-LON / H2P / PUMALAN /DART protocols communication
- Authorization with next charge connection available

## AT02-EA possible configurations

AT02-EA																		
VERSION	SINGLE	S																
	DOUBLE	D																
NOMINAL VOLTAGE	230 V		1															
	400 V		2															
MAX POWER	11 kW			1														
	22 kW			2														
	44 kW			3														
CHARGING TYPE	MODE 1				1													
	MODE 2				2													
	MODE 3				3													
	MODE 1-3				4													
CHARGING SOCKET 1A	ABSENT				0													
	TYPE 1				1													
	TYPE 2				2													
	TYPE 3				3													
	INDUSTRIAL 1				4													
	INDUSTRIAL 2				5													
	INDUSTRIAL 3				6													
CHARGING SOCKET 1B	ABSENT				0													
	TYPE 1				1													
	TYPE 2				2													
	TYPE 3				3													
	INDUSTRIAL 1				4													
	INDUSTRIAL 2				5													
	INDUSTRIAL 3				6													
CHARGING SOCKET 2A	ABSENT				0													
	TYPE 1				1													
	TYPE 2				2													
	TYPE 3				3													
	INDUSTRIAL 1				4													
	INDUSTRIAL 2				5													
	INDUSTRIAL 3				6													
CHARGING SOCKET 2B	ABSENT				0													
	TYPE 1				1													
	TYPE 2				2													
	TYPE 3				3													
	INDUSTRIAL 1				4													
	INDUSTRIAL 2				5													
	INDUSTRIAL 3				6													
RFID READER	YES								S									
	NO								N									
OCPP CONNECTION	YES									S								
	NO									N								
6 mA DC/3 mA AC	YES										S							
	NO										N							
VISUALIZATION	ONE SIDE														M			
	TWO SIDE														B			
TYPE	COMPTOMETRIC															C		
	VOLUMETRIC															V		
	ALPHANUMERIC															A		
MODALITY	INDUSTRIAL																	I
	MID																	M

➤ Standard models in price list in yellow.



## Technical characteristics

Model	AT02-EA
<b>AC Input</b>	
• Input voltage	230÷400 VAC
• Nominal current	16 A / 32 A (depending on the model)
• Nominal power	22 kW single, 44 kW double
• Consumption stand-by	25 W
• Measurable load	0,1÷64 A
• Accuracy	Class 0,5 (MID)
<b>General specifications</b>	
• Display	LCD 6-digit height 1" LED backlit
• RFID module	ISO/IEC14443A/B, Mifare (optional)
• Remote connection	RS458 / C.Loop NP / C.Loop Gilbarco / IFSF-Lon
• Environment	Indoor / Outdoor
• Operating temperature	-20÷+54°C
• Storage temperature	-25÷+50°C
• Operating humidity	≤95% non-condensing
• Protection degree	IP44
• Certifications	IEC / EN 61851-1

**Double  
version**



# AT15-ER 60-180 kW DC fast charger

The AT15-ER series charger is able to load all current and next generation electric vehicles. Configurable as a single, double (default), or triple socket supporting the changing needs of each customer.



## Main features

- 60 ÷ 180 kW DC/AC fast charger, supports multiple socket standards as CCS2, CHAdeMO and AC Type 2
- Multiple output: DC power up to 180 kW, AC up to 22 kW
- Reliable, robust, modular hardware
- Simple, quick and easy installation
- Daylight readable touch screen display
- Supports the communication protocol OCPP 1.6J / Modbus
- RFID authorization
- Authorization with back end system connection available

## Technical characteristics

Model	AT15-ER/60	AT15-ER/90	AT15-ER/120	AT15-ER/150	AT15-ER/180
<b>AC input / DC output</b>					
• Power connection	3P + N + PE				
• Input voltage	400 VAC ± 20 %				
• Frequency	50 Hz or 60 Hz				
• Nominal input current & power	60 kW 87A	90 kW 130 A	120 kW 174 A	150 kW 217 A	180 kW 260 A
• Power factor	> 0.99				
• Overall efficiency	95%				
<b>DC output</b>					
• Output voltage	150-1000 VDC				
• Nominal power	0÷60 kW	0÷90 kW	0÷120 kW	0÷150 kW	0÷180 kW
<b>AC output</b>					
• Output voltage	230÷400 VAC				
• MAX Output current	32 A				
• Nominal power	22 kVA				
<b>General specification</b>					
• Output type	DC multi-standard 2 (Mode-4), con AC (Mode-3)				
• Output interface	CCS2, CHAdEMO, AC type 2				
• AC interface	Type 2 socket 22 kW (optional)				
• Display	10" TFT color screen				
• RFID module	ISO/IEC14443A/B, Mifare				
• Network connection	3G (GSM o CDMA) / LAN / Wi-Fi				
• Communication protocol	OCPP 1.6, DART				
• Environment	Indoor / Outdoor				
• Operating temperature	-20÷+50°C				
• Storage temperature	-40÷+60°C				
• Operating humidity	≤95% non-condensing				
• Protection degree	IP54, IK10				
• Acoustic noise	<55 dB				
• Certifications	CE, EN 61851-1:2011, EN 61851-22:2002, EN 61851-23:2014, EN 61851-24:2014, IEC 61851-21-2:2018, DIN 70121, ISO 15118				



CCS CHAdEMO AC Type 2



CCS CHAdEMO



Dual CCS



CCS + AC Type 2

# AT15-EU 180-300 kW DC ultra-fast charger

The AT15-EU series charger is able to load all current and next generation electric vehicle with CCS standard.

It is a fast station to load any vehicle or bus compatible with the CCS2 standard (or GB / T on request).



## Features

- 120 ÷ 240 kW DC ultra-fast charger
- Multiple output
- Supports the CCS2 charging outputs simultaneously
- Reliable, robust, modular hardware
- Simple, quick and easy installation
- Daylight readable touch screen display
- Supports the open communication protocol MODBUS/OCPP
- RFID authorization

## AT15-EU possible configuration

Model	Type	
AT15EU	AT15 CCS2 + CCS2	180 kW
AT15EU	AT15 CCS2 + CCS2	240 kW
AT15EU	AT15 CCS2 + CCS2	300 kW

## Technical characteristics

Model	AT15-EU/180	AT15-EU/240	AT15-EU/300
<b>AC input / DC output</b>			
• Power connection		3P + N + PE	
• Input voltage		400 VAC ± 20 %	
• Frequency		50 Hz o 60 Hz	
• Nominal input current & power	260 A, 180 kW	347 A, 240 kW	435 A, 300 kW
• Power factor		> 0.99	
• Overall efficiency		95%	
<b>DC output</b>			
• Output voltage		150-1000 VDC	
• Nominal power	0÷180 kW	0÷240 kW	0÷300 kW
<b>General specification</b>			
• Output type		CC (Mode-4)	
• User interface		CCS2	
• Display		10" TFT color screen	
• RFID module		ISO/IEC14443A/B, Mifare	
• Network connection		3G (GSM o CDMA) / LAN / Wi-Fi	
• Communication protocol		OCPP / Modbus	
• Environment		Indoor / Outdoor	
• Operating temperature		-20÷+50°C	
• Storage temperature		-40÷+60°C	
• Operating humidity		≤95% non-condensing	
• Altitude		Up to 1000 m	
• Protection degree		IP44, IK10	
• Acoustic noise		<55 dB	
• Certifications	CE, EN 61851, EN 62196, DIN 70121, ISO 15118		

# AT15-ES Ultra-fast charging station with 120-360 kW satellites

The AT15-ES series station is a new, innovative, solution to the growing demand for high-current fast charging of next-generation electric vehicles.

The AT15-ES system adopts a modular structure and the most advanced ultra-fast charging technology. It consists of a power supply module and two charging columns.



## Main features

- Suitable for all current and next generation electric vehicles
- Modular structure, supply battery over 360 kW ~ 500 kW
- Distance between the power supply battery and the charging columns up to 150m
- Wide voltage range: 50-1000 V
- Supports CCS connectors up to 500A with liquid-cooled cables
- Readable touch screen display in daylight
- RFID authorization
- Low operating noise
- Customizable

Model	AT15-ES/120	AT15-ES/180	AT15-ES/360
<b>AC input / DC output</b>			
• Power connection	3P + N + PE		
• Input voltage	400 VAC ± 20 %		
• Frequency	50 Hz o 60 Hz		
• Power factor	> 0.99		
• Overall efficiency	95%		
<b>DC output</b>			
• Output voltage	50-1000 VDC		
• Current	174 A	260 A	360 A
• Nominal power	120 kW	180 kW	360 kW
<b>General specification</b>			
• Output interface	CCS2		
• Display	12.1" TFT color screen		
• RFID module	ISO/IEC14443A/B, Mifare		
• Network connection	3G (GSM o CDMA) / LAN / Wi-Fi		
• Communication protocol	OCPP / Modbus		
• Environment	Indoor / Outdoor		
• Operating temperature	-20÷+40°C		
• Storage temperature	-40÷+70°C		
• Operating humidity	≤95% non-condensing		
• Altitude	Up to 1000 m		
• Protection degree	IP44, IK10		
• Acoustic noise	Power supply module: 1300x750x1950 mm Charge column: 320x280x1740 mm		
• Network connection	<55 dB		
• Certifications	EN 61851, EN 62196, DIN 70121, ISO 15118		

# AT15-EF Ultra-fast charging station with satellites for fleets

The AT15-EF series charging station is a split-type charging system meeting multiple standards CCS2, CHAdeMO, GB/T. Adopting modular design concept and forefront power electronic technology, consists of power stack, control units and charge posts. Both indoor and outdoor types available.

Dedicated to parking or fleet charging.





## Features

- Flexible, supports multiple socket standards as CCS2, CHAdeMO, GB/T
- Flexible power distribution function, dynamically adjust output power according to the demand of electric vehicles.
- Multi outlets to charge multiple vehicles simultaneously, the output and power as follows:  
240 kW indoor/outdoor type satellite: 2 ÷ 8 outputs, each output 0~60 kW o 0~120 kW  
360 kW indoor type satellite: 2~12 outputs, 30~180 kW flexible output
- 12,1" LCD / LED screen to display information in real time, easy operation and humanized user interface
- Supports various online payment methods
- Insulation monitoring function, automatically turn off output to ensure safe charging
- High adaptability of temperature range, isolated heat dissipation air ducts, power heat dispassion is separated from control circuit to ensure dust-free of control unit
- High efficiency, high reliability, ultra-low radiation, fast maintenance, flexible capacity expansion, energy efficiency and environmental protection



***AT15-EF with 8 satellites***

Model	AT15-EF/240		AT15-EF/360
<b>AC input / DC output</b>			
• System capacity	240 kW		360 kW
• Max outputs	8		12
• Output capacity of each route	15÷60 kW o 0÷120 kW		30÷180 kW
• Input voltage	400 VAC ±20%		
• Input voltage range	260÷530 V (260÷304 VCA; output power derating 50%)		
• Current share precision	3%		
• Power factor	> 0.99		
• Working frequency	50/60 Hz		
• Output voltage	150-1000 VDC		
• Current regulation accuracy	<1%		
• Voltage regulation accuracy	<0,5%		
• Current share precision	<3%		
• Overall efficiency	95%		
• BMS auxiliary power supply	12 V /10 A		
<b>General specification</b>			
• Communication interface	Ethernet, CAN/RS485, 3G/4G		
• Communication protocol	OCPP / Modbus		
• Environmental	Outdoor	Indoor	Indoor
• Acoustic noise	≤60 dB		
• Degree protection	PCS Column	IP55 (outdoor)	IP30 (indoor) IP55 (outdoor)
	PCS	1300x750x1950	900x1000x2000
• Dimensions	Control unit	-	600x1000x2000
	Column	320x280x1740	

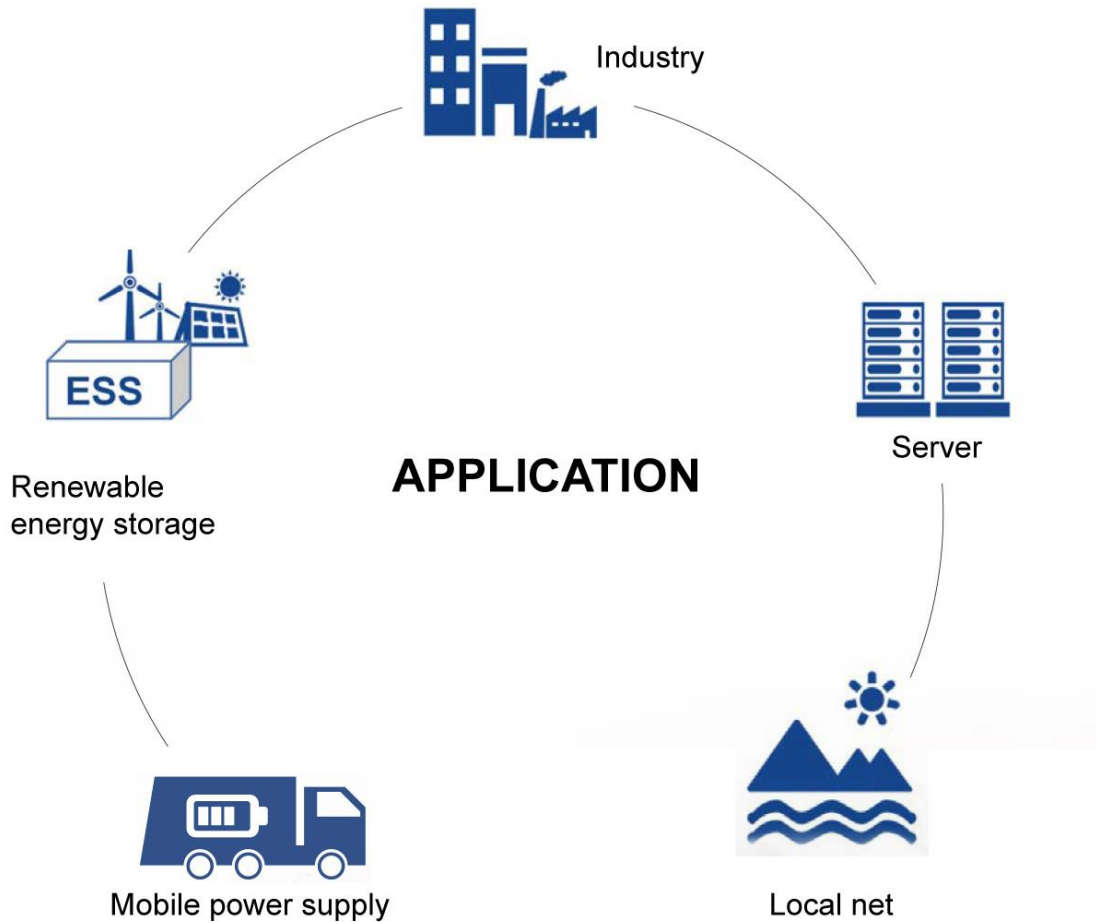
# ATBAT Renewable energy charging station

The storage station allows energy to be stored to make it available when a high capacity of instantaneous power is needed for fast recharging of the batteries of motor vehicles.

The station is powered by electricity, photovoltaic panels, wind generators or other renewable sources. It can be configured with various powers both in input (battery charge rectifiers) and storage capacity of stationary batteries.



# Storage system



## Features

- High quality LFP batteries for mobile use
- Battery module is used to wiring electrode, which is of high strength and low impedance
- Damping pad design for battery installation to improve the impact resistance of the system
- IP54, safe and reliable operation in outdoor environment
- Serially designed PCS and battery pack eliminates circulating current and improve system reliability
- Integrated BMS, DC, AC multi-layer protection, maximum safety performance design
- Integrated system, standard modular power module and battery module, easy for installation, maintenance and capacity expansion
- Easy access to PV and diesel generation, intelligent multi-energy management
- Fixed on the ground or mounted on vehicle, can be loaded and unloaded by forklift and hoisted by lifting ring
- Multi system could be connected in parallel



**ATBAT75-50**



**ATBAT150-100**



**ATBAT225-150**



**ATBAT300-200**

Model	<b>ATBAT75-50</b>	<b>ATBAT150-100</b>	<b>ATBAT225-150</b>	<b>ATBAT300-200</b>
• Battery capacity	76.6 kWh	150 kWh	225 kWh	300 kWh
• Pcs CAPACITY	50 kW	100 kW	150 kW	200 kW
• Dimension (WxDxH) mm	1300x1500x1700	1300x2270x1700	1300x3050x1700	1300x3830x1700
• Peso (kg)	1400	2500	3550	4600

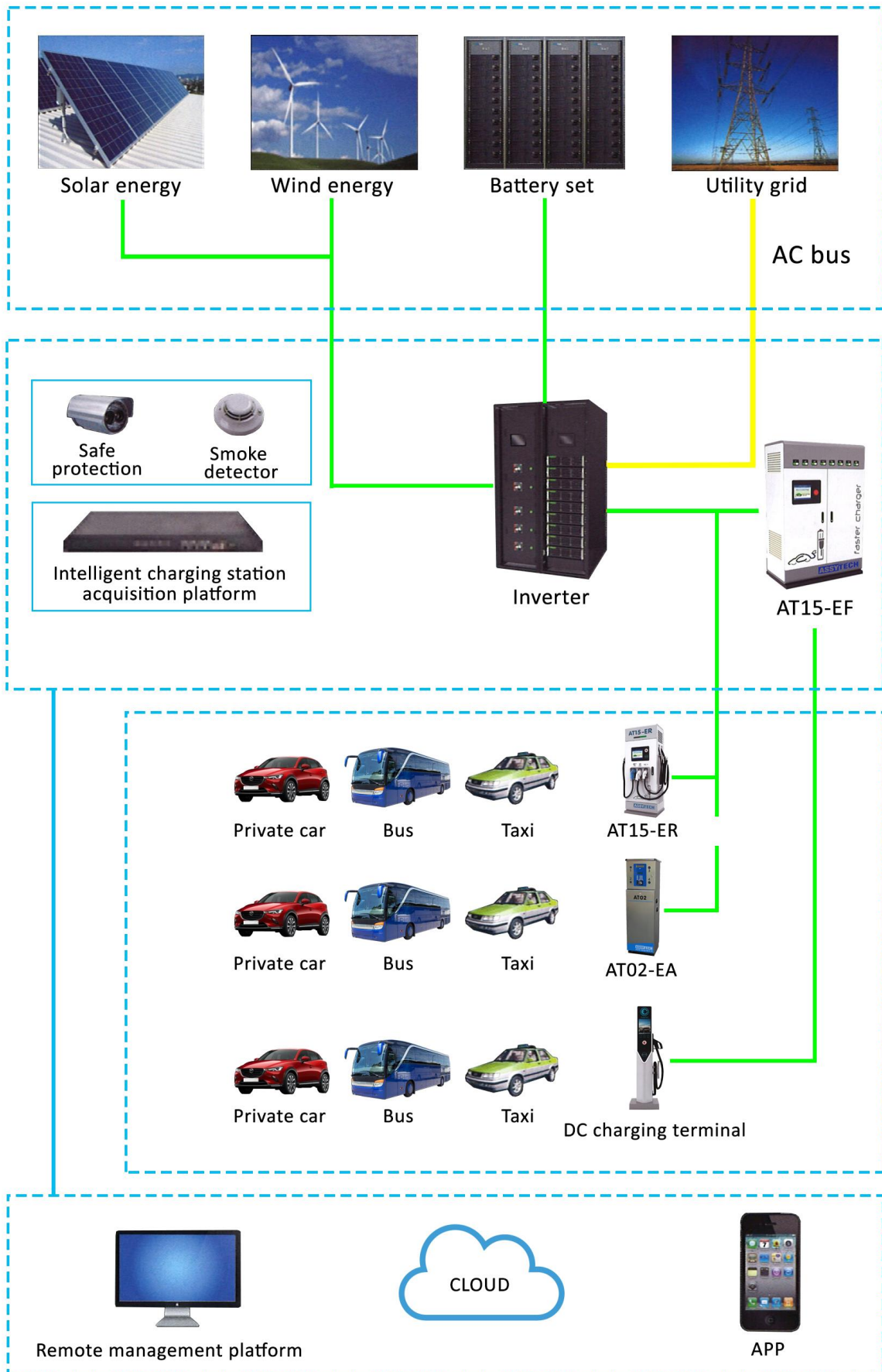
## **ATBAT possible configuration**

ATBAT75-50	Storage system 76.6 kWh
ATBAT150-100	Storage system 150 kWh
ATBAT225-150	Storage system 225 kWh
ATBAT300-200	Storage system 300 kWh

## **Accessories**

MPTT	50 kW MPTT solar panel connection module
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# Station layout



# Container

Container solution provides an integrated product of PCS, storage battery, switch gear, charging satellite (optional), etc., support grid tired or off-grid operation and renewable energy sources connection.

Battery storage container: 500 kW/1 MWh

Charging satellite: 32 units of 0÷120 kW



# Examples of application



***AT15-ER 60 kW with double charge connection***



***AT15-ER 60 kW with double charge connection***

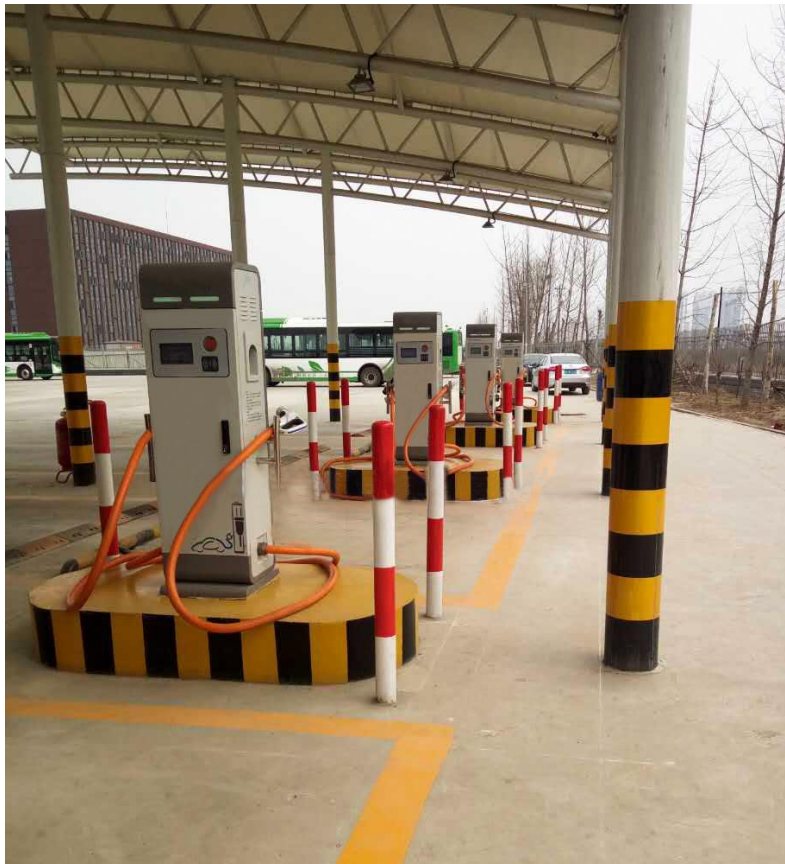




***AT15-EV for fleet charging with double charge connection***



***AT15-EV 120 kW fast charge, one charge connection***



***AT15-EV with two charge connection***



***AT15-EV bus charger with double charge connection***

