



# ALL-IN-ONE EV CHARGER



ALPR



PAYMENT



OCCUPANCY  
DETECTION



EV  
CHARGING



INDICATOR  
LIGHT



## ALPR

High-performance **Automatic License Plate Recognition** system.



## PAYMENT

Paying for the use of parking spaces in a designated area.



## OCCUPANCY DETECTION

Displaying different colored lights to guide drivers to available parking spaces.





## EV CHARGING

Supplying electrical energy to electric vehicles (EVs) to recharge their batteries.



## INDICATOR LIGHT

Provide feedback about the status or condition of charger.

# FUNCTION



**AUTOMATIC LICENSE PLATE RECOGNITION (ALPR)** is a technology that uses optical character recognition on images to read vehicle license plates.



**PAYMENT** refers to the process of paying for the use of parking spaces in a designated area, including on-street parking spaces and public parking lot.



**OCCUPANCY DETECTION** utilize sensors, cameras, or other technologies to determine if a space is occupied by people.



**EV CHARGING** refers to the process of supplying electrical energy to electric vehicles (EVs) to recharge their batteries.



**INDICATOR LIGHT** provide users with quick and easily understandable feedback about the status or condition of a system



**ALL-IN-ONE EV CHARGER**  
**AM-P-01A**

# SPECIFICATION



**ALL-IN-ONE EV CHARGER**  
**AM-P-01A**

<b>SIZE</b>	<b>AM-P-01A</b>
Dimension (WxDxH)	36 X 27.5 X 140 cm
Charging Cable Length	5.3 m
<b>DISPLAY PANEL</b>	
Resolution	1024 X 600 pix
Brightness	1000 nits
Dimension	15.7 X 9 cm
Input	PCAP multi-touch
<b>REGULATION</b>	
Charging Connector	SAE J1772 Type 1
Certification Compliance	CNS 15511-1 (Safety), CNS 15511-21-2 (EMC)
<b>COMMUNICATION</b>	
Protocol	OCPP 1.6 JSON



# SPECIFICATION



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**AM-P-01A**

PROTECTION	AM-P-01A
Leakage Current Protection	RCD Type A (30mA)
Input	UVP, OVP, Surge protection, Ground fault
Output	OCP, Control pilot fault, Residual current protection
Internal	Over temperature, relay welding detection, MCU error detection
ELECTRICAL	
AC Input Rating	Single phase, 220+/-10%, VAC, 50 / 60Hz
Wire Connection	L1 / L2 / PE or L / N / PE
Max. Input Current	48A
AC Output Power	11.5KW (Max.)
Network Interface	ethernet

# SPECIFICATION



ENVIRONMENT	AM-P-01A
Operation Temperature	-30°C ~ +50°C
Storage Temperature	-40°C ~ +80°C
Humidity	< 95% relative humidity, non-condensing
Altitude	< 2000m
Cooling System	Passive
CAMERA	
Camera Specification	2MP camera with automatic license plate recognition
License Plate Recognition Accuracy	> 99%
Coverage	1 parking space



**ALL-IN-ONE EV CHARGER**  
**AM-P-01A**

# HARDWARE

	ITEM	DESCRIPTION	AM-P-01A (ALL-IN-ONE)
<b>STANDARD</b>	Ethernet Network Access	Ethernet internet access.	<b>V</b>
	WiFi Network Access	WiFi internet access.	—
	LED Indication	8-Colors LED indication for specific condition.	<b>V</b>
	5" LCD Screen	5" colored LED display.	—
	7" LCD Screen	7" colored LED display with touch input.	<b>V</b>
	2MP Camera Module	2MP camera module for automatic license plate recognition.	<b>V</b>
	NFC-based Charging	NFC-based charging.	—

V Standard

© Optional

— Not available

# HARDWARE

	ITEM	DESCRIPTION	AM-P-01A (ALL-IN-ONE)
<b>STANDARD</b>	Operational Temperature Monitoring	Internal temperature measurement.	<b>V</b>
	AC Power Supply	AC power supply.	<b>V</b>
	J1772 Charge Plug (5m wire)	SAE J1772 AC charge plug (5m wire).	<b>V</b>
	Aluminum Alloy Casing	High-strength aluminum alloy casing / passed IK10 impact test.	<b>V</b>
<b>OPTIONAL</b>	J1772 Charge Plug (7m wire)	SAE J1772 AC charge plug (7m wire).	◎
	Holster	Holster for charge plug.	◎
	Enclosure Wrapping	The casing can be customized with patterns according to requirements.	◎

V Standard

◎ Optional

— Not available

# SOFTWARE

	ITEM	DESCRIPTION	AM-P-01A (ALL-IN-ONE)
STANDARD	Device API	Integration of the device with customer systems via API.	V
	Charger API	Device health, charging control, charging progress.	V
	All-In-One Charger API	Device health, live video, vehicle entry and exit information, charging control, charging progress, fee inquiry, payment results.	V
OPTIONAL	Frontend LPR	Device with built-in LPR engine for vehicle entry and exit determination.	©
	OTA Updates	Over-the-air firmware updates.	©
	Cyclic Recording	Video recording storage, accessible for retrieval at any time.	©
	Smoke and Flame Detection	Automatic alerting for smoke and flames.	©

V Standard    © Optional    — Not available

# SOFTWARE

	ITEM	DESCRIPTION	AM-P-01A (ALL-IN-ONE)
OPTIONAL	Sentry Mode	Proactive notification of anomalies.	Ⓞ
	Charging Station Management System	Manage charging stations, charging profiles, charging records, etc.	Ⓞ
	CSMS - Member Module	Member management.	Ⓞ
	CSMS - Billing Module	Configure billing rules & cost reports.	Ⓞ
	CSMS - Smart Charging Module	Integrated LPR for charging locking feature.	Ⓞ
	CSMS - Charging API	Offering charging APIs for customers to develop their own systems.	Ⓞ
	CSMS - Billing API	Offering billing APIs for customers to develop their own systems.	Ⓞ

V Standard

Ⓞ Optional

— Not available

# SOFTWARE

	ITEM	DESCRIPTION	AM-P-01A (ALL-IN-ONE)
<b>OPTIONAL</b>	CSMS - Web	Providing a customized website for charging service usage.	⊙
	CSMS - Web - Billing Module	Integrating third-party payment gateway for online payments.	⊙
	CSMS - Web - E-Invoice Module	Integrating electronic invoice issuance service.	⊙
	CSMS - APP	Providing a customized app for charging service usage.	⊙
	Advertising management system	Manage Ad content on devices.	⊙

V Standard

⊙ Optional

— Not available