

GreenGiant Parking & Charging Integrated Unit (Slow Charging)

SV-CS-A1-EX



Making Cities Better

Product Overview

The product is an intelligent AC charging pile that integrates parking management and EV charging functions into one unit. Integrating AC charging modules and intelligent monitoring & identification components in a single device, it simultaneously meets the dual demands of electric vehicle charging and smart management of charging parking spaces.

The product consists of four core parts including pile housing, electrical module, metering module, and billing management module. It is equipped with one charging gun for vehicle charging, featuring a rated AC output voltage of 220V and an output power of 7kW. Matched with the on-board charger of electric vehicles, it delivers slow charging service for EVs.

Its intelligent monitoring and identification assembly is fitted with a 4-megapixel AI recognition camera embedded with a multi-target detection and recognition algorithm for pedestrians, motor vehicles and non-motor vehicles. The system enables real-time surveillance of charging space, identifies vehicle entry and departure movements, and extracts characteristic data including vehicle type and license plate number. It also detects and triggers alarms for abnormal incidents such as motor vehicles crossing boundary lines to occupy charging spots, occupation by non-motor vehicles or fuel-powered cars, loitering personnel, open flames and smoke, and transmits corresponding alarm data.

This charging station supports two installation methods: wall-mounted installation and floor-standing column installation. It is applicable to various parking and charging scenarios including residential communities, general parking lots, charging stations, and highway service areas.

Product Appearance

BLUE ROBOT AI

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Email: support@bluerobotai.com

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Functional Features

- Integrated parking and charging design, equipped with dual 4MP resolution intelligent recognition video module, built-in human-vehicle-non-motor multi-target AI detection algorithm. Can simultaneously monitor 1 charging parking space in real-time, recognize vehicle entry and exit behaviors, extract feature information such as vehicle type and license plate number, with recognition rate >99%;
- Accurate electric energy metering, metering accuracy Class 1.0;
- Can detect and generate alarms for cross-line occupancy of charging vehicles, non-motor vehicle occupancy, gasoline vehicle occupancy, and personnel loitering;
- Can detect and generate alarms for abnormal events such as smoke and flame;
- Fitted with a 4.3-inch LCD screen, supporting three charging modes: card swiping, mobile APP and QR code scanning.
- Equipped with operating status monitoring and fault diagnosis functions.
- Built-in multiple protection functions including overvoltage protection, undervoltage protection and overcurrent protection.
- Emergency stop function for unexpected incidents: charging can be immediately terminated via the emergency stop button when an emergency shutdown is required.
- Two installation options available: wall-mounted and floor-standing column installation.

Technical Parameters

Parameters	Parameter Value
Rated Power	7 kw
Installation Method	Wall Mount/Pole Mount
Image Sensor	4MP Starlight CMOS
Fill Light	Intelligent High-Brightness LED Fill Light

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Video Encoding	H.264/H.265
OSD	Real-time OSD Overlay Supported
Video	2560×1440, 2304×1296, 1920×1080, 1280×720, 1~30fps
Display Screen	4.3-inch color touch display
Cable Length	5 m
Input Voltage	AC220V±15%
Output Current	32A
Output Voltage	AC220V±15%
Input Frequency	50±1Hz
Metering Accuracy	Class 1
Charging Method	QR code scanning, mobile App
Networking Method	Ethernet, 4G
Implementation Standard	GB/T20234
Operating Temperature Range	-25°C~55°C
Ambient Operating Humidity	5%~95% No Frost
Ingress Protection Rating	IP54
Dimensions	245*350*110(mm)
Weight	Approx. 6kg

Application Scenarios

The product can be wall-mounted or installed on the ground via a floor-standing column, suitable for charging scenarios in residential communities, various parking lots, charging stations, service areas and other parking charging application scenarios.

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