

# UNR1 AC Charger Series

Level 2



NEMA 14-50



Type 1 Plug



NACS Plug



Warranty 3 Years



40A/48A



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## Product Overview

The UNR1 Series residential charging station provides a modern and convenient smart home charging solution, available in two versions with Type 1 and NACS connectors. It offers optional output choices of NEMA plugs or hardwired connections.

# Highlights

## Powerful

Up to 48A for fast charging



## Smart

Smart APP via WIFI or Bluetooth,  
easily control



## Flexible

NEMA plug or a hardwire connection  
installation to suit any need



## Durability

IP66/IK08, for any indoor or outdoor  
location



## Reliable

UL compliant, Energy Star, ETL and  
FCC certified



## Compatible

Supports all SAE J1772 Type 1 and  
Tesla NACS standard EVs, making it  
versatile for various EV models

# Model Selection



## Models-UNR1(Type 1)

Model No.	UNR1-A40T	UNR1-A48T
<b>ELECTRICAL SPECIFICATION</b>		
Input Connector	NEMA Plug cable * 1m, Hardwired Optional	Hardwired * 1m
Voltage	208/240 VAC	
Amperage/Power Output	40A/9.6KW	48A/11.5KW
Energy Metering Accuracy	±1%	
Mounting Option	Wall or Pedestal mount, Pedestal Optional	
<b>CHARGING INTERFACE</b>		
Charging Connector	SAE J1772 Type 1 Plug	
Charging Cable Length	25ft	
<b>USER INTERACTION</b>		
LED Status Indicator	POWER/CHARGING/CONNECT/FAULT status indication	
Reset button	Reset or restore factory Settings	
RFID	ISO14443 Type A&B	
Remote control	U-Charger APP	
<b>COMMUNICATION</b>		
Network Interface	WiFi/BT	
<b>SAFETY &amp; COMPLIANCE</b>		
Ground Fault Detection	CCID20	
Surge Protection	6kV @3,000A	
Protection	UVP(UnderVoltage), OVP(OverVoltage), OCP(OverCurrent), OTP(OverTemp), Control Pilot Fault Protection, Relay-sticking protection, Ground Fault Protection	
Safety Compliance	UL 2594 / CSA C22.2 No. 280-16, UL 2231-1 / CSA C22.2 No. 281.1-12, UL 2231-2 / CSA C22.2 No. 281.2-12	
Certification	ETL/FCC/EnergyStar	
<b>ENVIRONMENTAL</b>		
Operating Temperature	-22°F to 131°F (-30°C to 55°C)	
Operating Humidity	5%~95% RH, Non-condensing	
Operating Altitude	≤2000m, No Derating	
Enclosure Rating	Type 3	
<b>SPECIFICATION</b>		
Net Weight	6.4KG	6.8KG
Gross Weight	8.4KG	8.7KG
Product Dimensions	220W*220D*101.5H(mm)	
Package Dimensions	395W*375D*295H(mm)	

# Model Selection



## Models-UNR1(NACS)

Model No.	UNR1-A40N	UNR1-A48N
<b>ELECTRICAL SPECIFICATION</b>		
Input Connector	NEMA Plug cable * 1m, Hardwired Optional	Hardwired * 1m
Voltage	208/240 VAC	
Amperage/Power Output	40A/9.6KW	48A/11.5KW
Energy Metering Accuracy	±1%	
Mounting Option	Wall or Pedestal mount, Pedestal Optional	
<b>CHARGING INTERFACE</b>		
Charging Connector	SAE J3400,NACS Plug	
Charging Cable Length	25ft	
<b>USER INTERACTION</b>		
LED Status Indicator	POWER/CHARGING/CONNECT/FAULT status indication	
Reset button	Reset or restore factory Settings	
RFID	ISO14443 Type A&B	
Remote control	U-Charger APP	
<b>COMMUNICATION</b>		
Network Interface	WiFi/BT	
<b>SAFETY &amp; COMPLIANCE</b>		
Ground Fault Detection	CCID20	
Surge Protection	6kV @3,000A	
Protection	UVP(UnderVoltage), OVP(OverVoltage), OCP(OverCurrent), OTP(OverTemp), Control Pilot Fault Protection, Relay-sticking protection, Ground Fault Protection	
Safety Compliance	UL 2594 / CSA C22.2 No. 280-16,UL 2231-1 / CSA C22.2 No. 281.1-12,UL 2231-2 / CSA C22.2 No. 281.2-12	
Certification	ETL/FCC/EnergyStar	
<b>ENVIRONMENTAL</b>		
Operating Temperature	-22°F to 131°F (-30°C to 55°C)	
Operating Humidity	5%~95% RH, Non-condensing	
Operating Altitude	≤2000m, No Derating	
Enclosure Rating	Type 3	
<b>SPECIFICATION</b>		
Net Weight	5.7KG	5.9KG
Gross Weight	7.6KG	7.9KG
Product Dimensions	220W*220D*101.5H(mm)	
Package Dimensions	395W*375D*295H(mm)	

# U-Charger APP

## Smart Electricity Cost Optimization

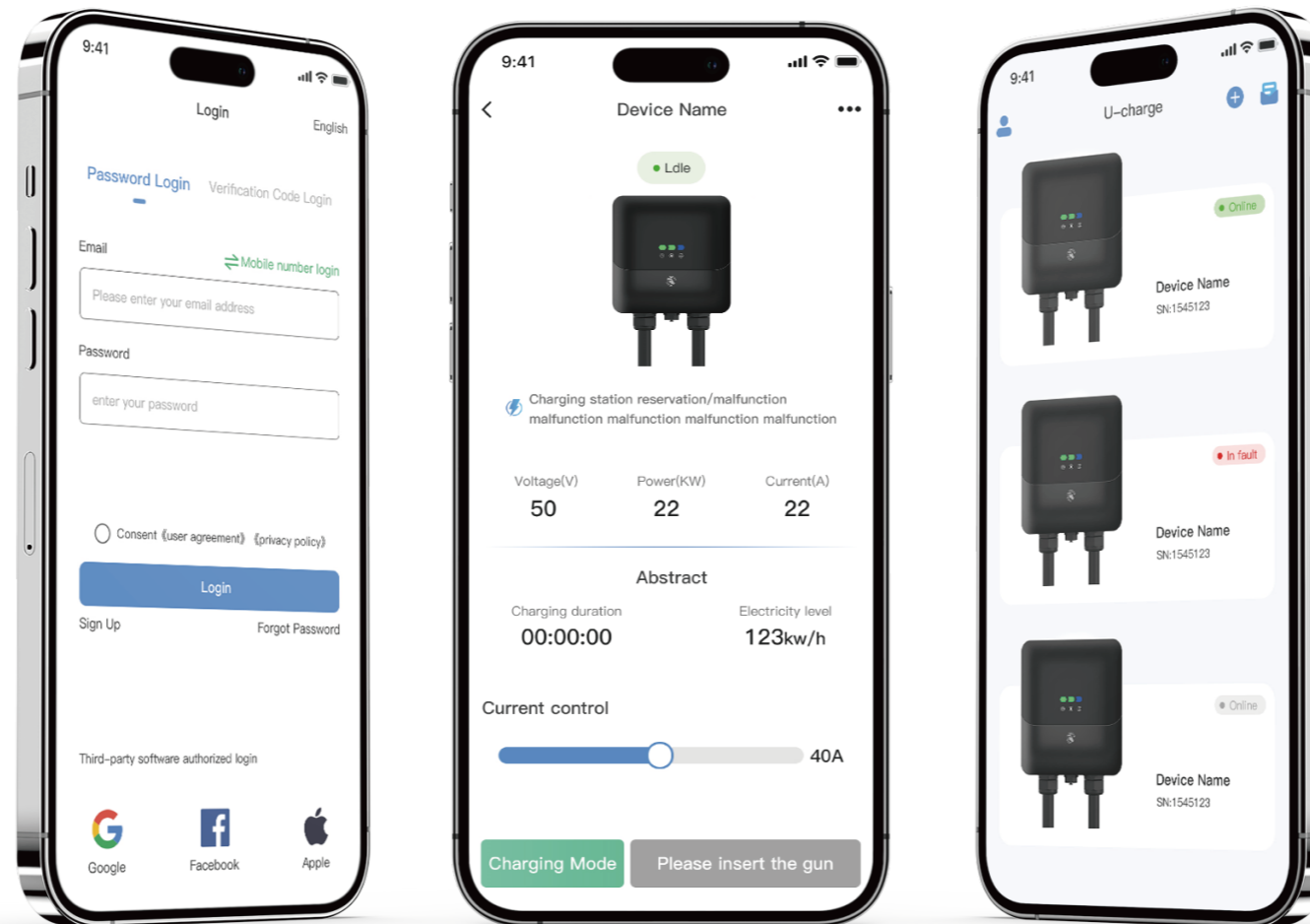
Smartly calculates the best charging times and current to help users reduce electricity costs and achieve energy savings.

## Real-Time Alert Notifications

Timely alerts for charging status, enhancing management convenience.

## Operational Status Monitoring

Comprehensive monitoring of equipment performance to ensure stable operation.



## Charging Data and Fault Analysis

Enhance safety and management by quickly identifying problems through data analysis.

## User-Friendly Interface

A simple and intuitive design ensures users can easily navigate the app, enhancing their experience.

## Customizable Features

Offers personalized settings based on customer needs to meet specific user requirements.

## APP Overview

The app enhances charging safety through real-time monitoring, intelligent fault analysis, and instant alerts, while featuring Smart Electricity Cost Optimization. This empowers users to optimize electricity costs precisely, delivering a seamless experience in effective charging management.

# U-Energy Platform

## Resource Sharing

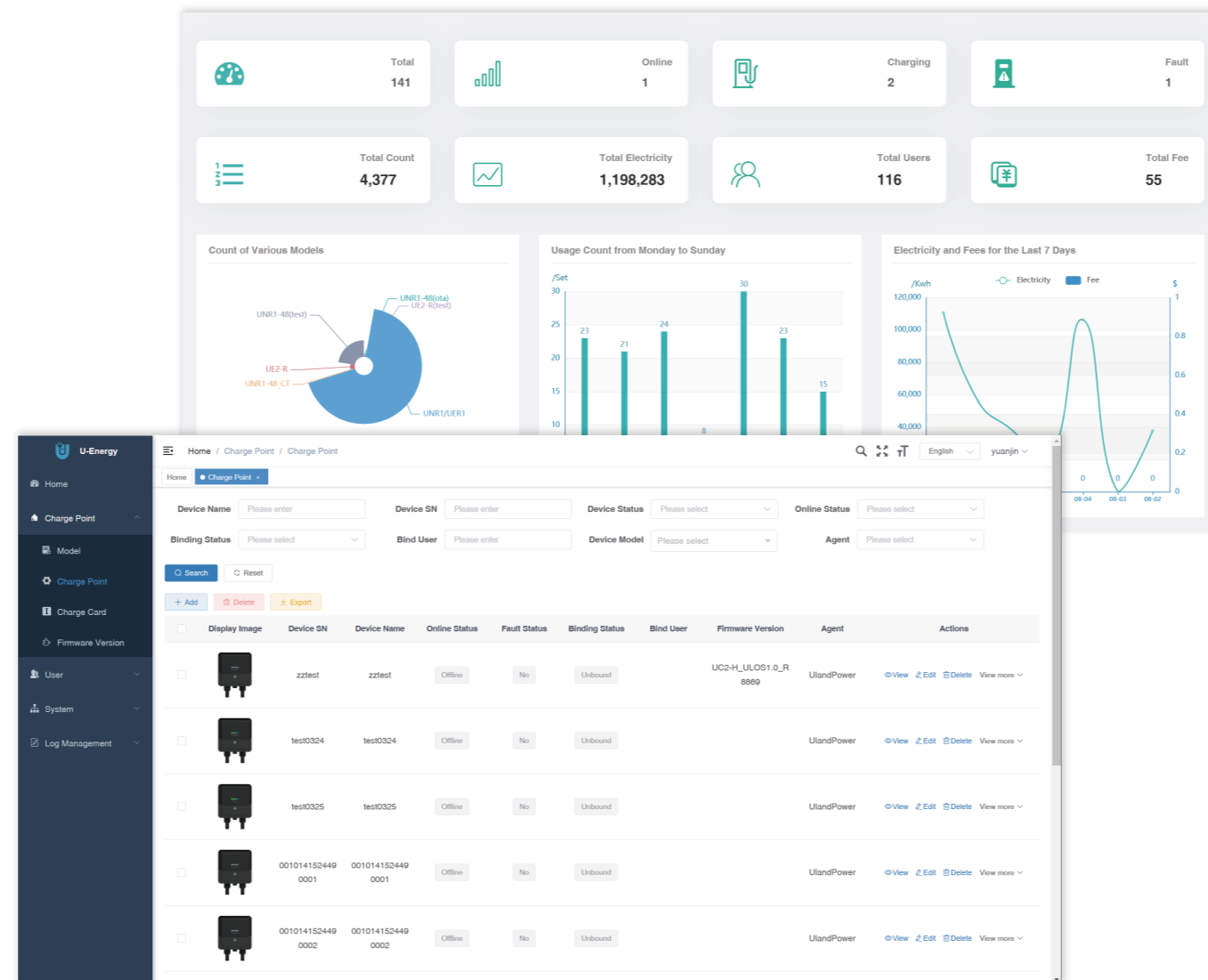
The platform achieves data isolation between users and charging stations, ensuring information security.

## Smart Dashboard

Displays real-time data for quick insights into charging station performance and operational status.

## Private Deployment

Supports private deployment to flexibly adapt to specific security and management needs.



## Global Access

The management backend supports access for global clients, enhancing operational convenience.

## Remote Management

Users worldwide can remotely configure charging stations via the app, improving efficiency.

## Data Analysis

Collecting charging station data and enabling remote diagnostics improve operational efficiency and reduce costs.

## Platform Overview

The platform, built on the SaaS model, supports private deployment and data isolation, enabling cloud management and real-time monitoring. By collecting charging station data, it reduces communication and maintenance costs, while enabling remote diagnostics and intelligent fault analysis to minimize repair time and operational expenses.