# UNR1 AC Charger Series

## Level 2

**NEMA 14-50**

**Type 1 Plug**

**NACS Plug**

**3**

**Warranty 3 Years**

**40A/48A**

## FUZHOU ULANDPOWER TECHNOLOGY CO.,LTD.

✉ info@ulandpower.com

🌐 www.ulandpower.com

📍 Building 1, Wanfu Center, Keji East Road，High tech Zone,Fuzhou City, Fujian Province, China, ZIP CODE: 350108

## 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 iutput 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/IK10, 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

# Product Series Comparison

## UNR1

**OCPP:**
OCPP 1.6J

**Connector:**
Type 1/NACS

**COMMUNICATION:**
WIFI/Bluetooth

**Dynamic Load Balancing:**
Not supported

## UNR1-Pro

**OCPP:**
OCPP 1.6J

**Connector:**
Type 1/NACS

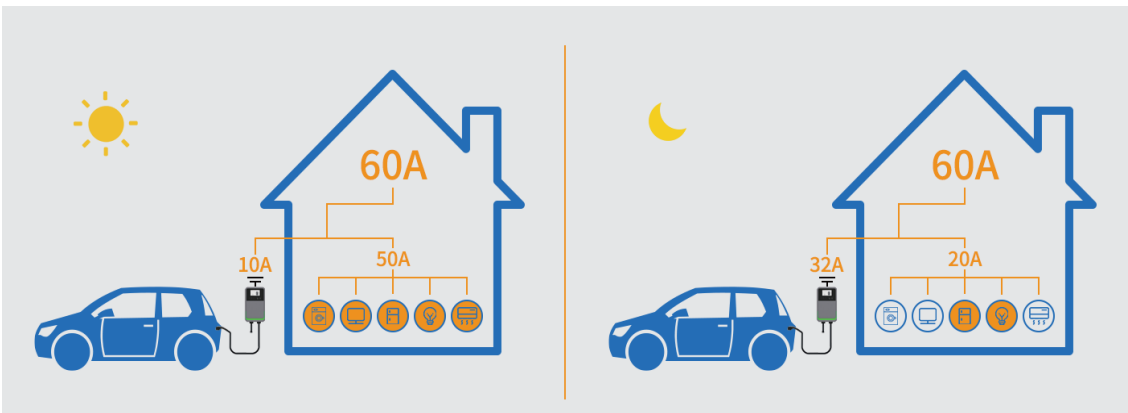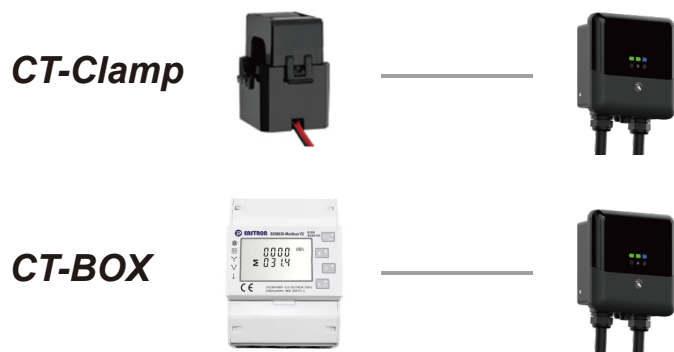**COMMUNICATION:**
WIFI/Bluetooth/RS485/LAN Optional

**Dynamic Load Balancing:**
Achieve load balancing through CT-CLAMP or CT-BOX.

## 📶 Versatile Connectivity

Connectivity via WiFi, RS485, Bluetooth and LAN optional, enabling real-time monitoring and management.

## ⚙ Dynamic Load Balancing

The optional CT-Clamp and CT-BOX can be easily integrated to dynamically adjust the current supplied to the EV, balancing the load and preventing overloading.

*CT-Clamp*

*CT-BOX*

60A · 10A · 50A

60A · 32A · 20A

## Models-UNR1(Type 1)

| Model No. | UNR1 | | UNR1Pro | |
|---|---|---|---|---|
| | UNR1-A40T | UNR1-A48T | UNR1Pro-A40T | UNR1Pro-A48T |
| **ELECTRICAL SPECIFICATION** | | | | |
| Input Connector | NEMA, Hardwired Optional | Hardwired | NEMA, Hardwired Optional | Hardwired |
| Voltage | 208/240，180 to 264VAC | | | |
| Amperage/Power Output | 40A/9.6KW | 48A/11.5KW | 40A/9.6KW | 48A/11.5KW |
| Energy Metering Accuracy | ±1% | | | |
| Mounting Option | Wall or Pedestal mount, Pedestal Optional | | | |
| **CHARGING INTERFACE** | | | | |
| Charging Connector | SAE J1772 Type 1 Plug | | | |
| Charging Cable Length | 25ft Standard | | | |
| **USER INTERACTION** | | | | |
| LED Status Indicator | CHARGING/CONNECT/FAULT status indication | | | |
| Resetting key | Reset or restore factory Settings | | | |
| Authentication | RFID: ISO14443 Type A&B | | | |
| Remote control | U-Charger APP | | | |
| **COMMUNICATION** | | | | |
| Network Interface | WiFi/BT Standard | | WiFi/BT Standard,LAN Optional | |
| Charging Protocol | OCPP1.6J | | | |
| Extend | Without | | 1*RS485,CT-CLAMP Optional | |
| **SAFETY & COMPLIANCE** | | | | |
| Safety Protection | Ground Fault Detection: CCID20,Ground Monitor: UL2231, Surge Protection:6kV @2,000A | | | |
| Protection | UVP, OVP, OCP, OTP, Control Pilot Fault Protection, Relay-sticking protection, Ground Fault Protection | | | |
| Safety Compliance | UL 2594/CSA C22.2 No,280-16UL 2231-1 /CSA C22 2 No. 281.1-12.UL 2231-2/C5A C22 2 No.281.2-12 | | | |
| Certiffcation | ETL/FCC/EnergyStar | | | |
| **ENVIRONMENTAL** | | | | |
| Operating Temperature | -30℃ ~ 55℃ | | | |
| Operating Humidity | 5%~95% RH, Non-condensing | | | |
| Operating Altitude | ≤2000m, No Derating | | | |
| IP/IK Level | IP66/IK10 | | | |
| **SPECIFICATION** | | | | |
| Net Weight | 6.5KG | 7.4KG | 6.5KG | 7.4KG |
| Gross Weight | 9.9KG | 10.8KG | 9.9KG | 10.8KG |
| Product Dimensions | 220W*220D*101.5H(mm) | | | |
| Package Dimensions | 395W*375D*295H(mm) | | | |

# Model Selection

## Models-UNR1(NACS)

| Model No. | UNR1 | | UNR1Pro | |
|---|---|---|---|---|
| | UNR1-A40N | UNR1-A48N | UNR1Pro-A40N | UNR1Pro-A48N |
| **ELECTRICAL SPECIFICATION** | | | | |
| Input Connector | NEMA, Hardwired Optional | Hardwired | NEMA, Hardwired Optional | Hardwired |
| Voltage | 208/240，180 to 264VAC | | | |
| Amperage/Power Output | 40A/9.6KW | 48A/11.5KW | 40A/9.6KW | 48A/11.5KW |
| Energy Metering Accuracy | ±1% | | | |
| Mounting Option | Wall or Pedestal mount, Pedestal Optional | | | |
| **CHARGING INTERFACE** | | | | |
| Charging Connector | NACS Plug | | | |
| Charging Cable Length | 25ft Standard | | | |
| **USER INTERACTION** | | | | |
| LED Status Indicator | CHARGING/CONNECT/FAULT status indication | | | |
| Resetting key | Reset or restore factory Settings | | | |
| Authentication | RFID: ISO14443 Type A&B | | | |
| Remote control | U-Charger APP | | | |
| **COMMUNICATION** | | | | |
| Network Interface | WiFi/BT Standard | | WiFi/BT Standard,LAN Optional | |
| Charging Protocol | OCPP1.6J | | | |
| Extend | Without | | 1*RS485,CT-CLAMP Optional | |
| **SAFETY & COMPLIANCE** | | | | |
| Safety Protection | Ground Fault Detection: CCID20,Ground Monitor: UL2231, Surge Protection:6kV @2,000A | | | |
| Protection | UVP, OVP, OCP, OTP, Control Pilot Fault Protection, Relay-sticking protection, Ground Fault Protection | | | |
| Safety Compliance | UL 2594/CSA C22.2 No,280-16UL 2231-1 /CSA C22 2 No. 281.1-12.UL 2231-2/C5A C22 2 No.281.2-12 | | | |
| Certiffcation | ETL/FCC/EnergyStar | | | |
| **ENVIRONMENTAL** | | | | |
| Operating Temperature | -30℃ ~ 55℃ | | | |
| Operating Humidity | 5%~95% RH, Non-condensing | | | |
| Operating Altitude | ≤2000m, No Derating | | | |
| IP/IK Level | IP66/IK10 | | | |
| **SPECIFICATION** | | | | |
| Net Weight | 6.5KG | 7.4KG | 6.5KG | 7.4KG |
| Gross Weight | 9.9KG | 10.8KG | 9.9KG | 10.8KG |
| Product Dimensions | 220W*220D*101.5H(mm) | | | |
| Package Dimensions | 395W*375D*295H(mm) | | | |

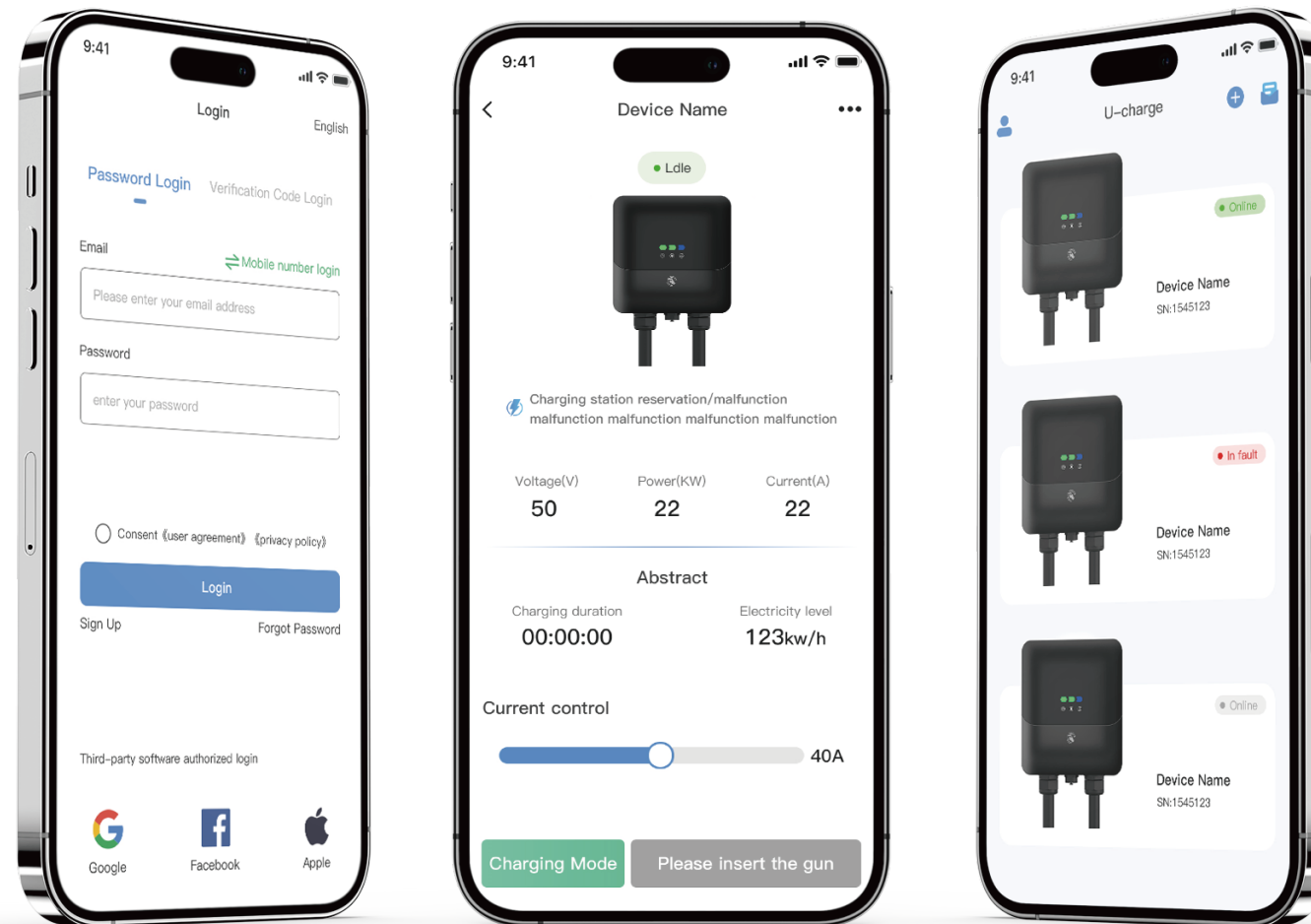# U-Charger APP

## 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.
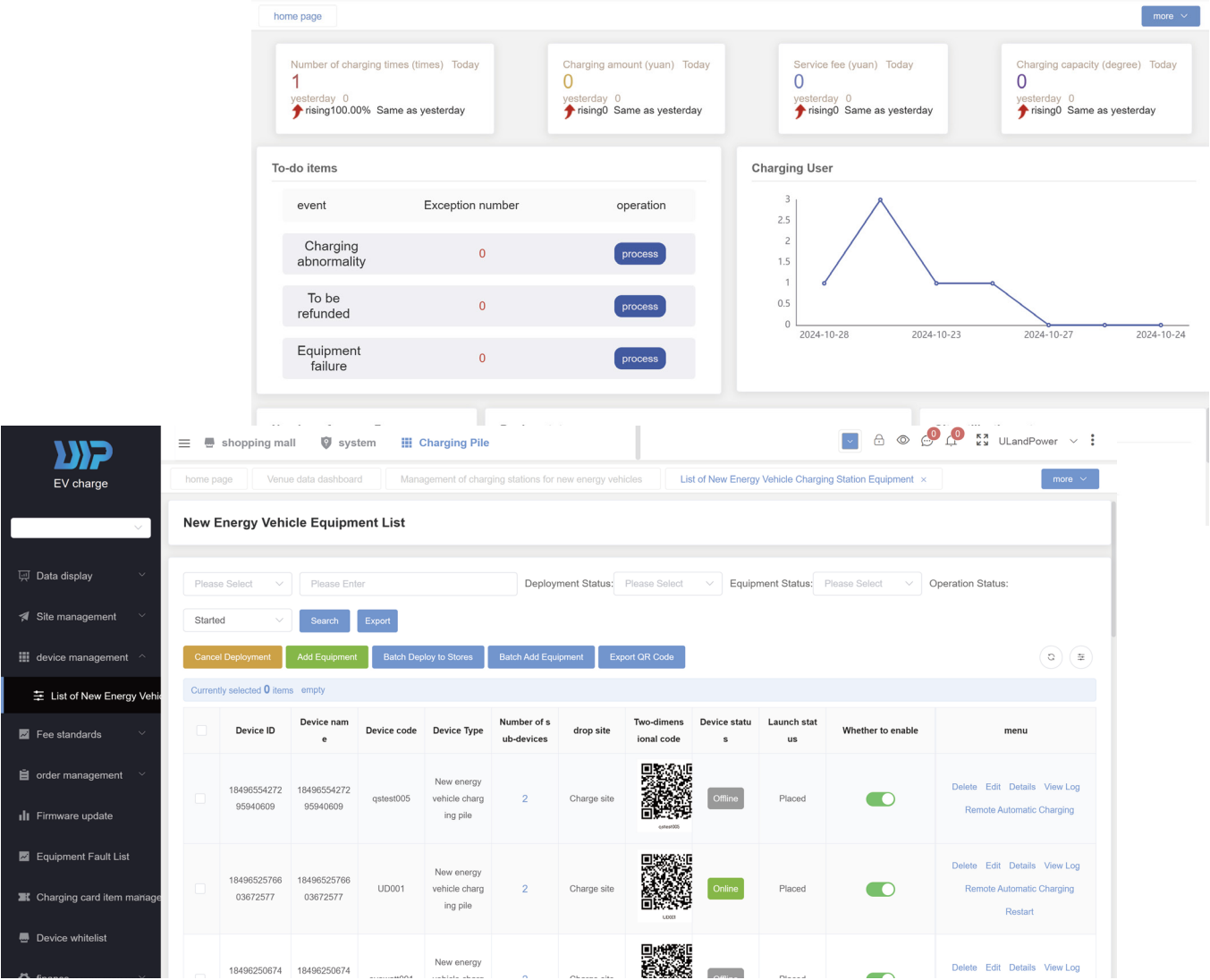
# U-Energy Platform



## 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.