POWER TECHNOLOGY
THE EV CHARGING COMPANY

POWER TECHNOLOGY SOLUTIONS / PRODUCT SPECIFICATIONS

# Power Technology Smart Outlet

Give residents and employees access to managed EV charging from a compact receptacle. Drivers bring their own compatible portable EV charger.

| | |
|---|---|
| **Receptacle options** | NEMA 14-50 or NEMA 6-20 |
| **NEMA 14-50** | Up to 40 A / 9.6 kW at 240 V |
| **NEMA 6-20** | Up to 16 A / 3.84 kW at 240 V |
| **Supply voltage** | 208/240 V AC |
| **Mounting** | Wall or pedestal |
| **Enclosure** | NEMA 3R with weatherproof cover, IK08 |
| **Network architecture** | Leader and Follower hardware options |
| **Communications** | OCPP 1.6J and 2.0.1 on Leader configurations per OEM |

Confirm specifications, connectors and options for your selected configuration with Power Technology Solutions.

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**Power Technology Smart Outlet**

# Electrical ratings and product information

## Product Information

| Model | PTS Smart Outlet L14-50<br>UP10-20020CA0001 | PTS Smart Outlet F14-50<br>UN10-20020C00001 | PTS Smart Outlet L6-20<br>UP04-10020CA0001 | PTS Smart Outlet F6-20<br>UN04-10020C00001 |
|---|---|---|---|---|
| **Input/output power rating &current** | 9.6kW (240V AC×40A) | 9.6kW (240V AC×40A) | 3.84kW (240V AC×16A) | 3.84kW (240V AC×16A) |
| **Input/output voltage** | 208/240V AC 50/60Hz | 208/240V AC 50/60Hz | 208/240V AC 50/60Hz | 208/240V AC 50/60Hz |
| **Input power connections** | L1, L2, Earth Ground | L1, L2, Earth Ground | L1, L2, Earth Ground | L1, L2, Earth Ground |
| **Input cord** | Hardwired | Hardwired | Hardwired | Hardwired |
| **Input wire gauge** | 12AWG–6AWG | 12AWG–6AWG | 12AWG–6AWG | 12AWG–6AWG |
| **Cable entry options** | Top, Bottom, Rear Entry | Top, Bottom, Rear Entry | Top, Bottom, Rear Entry | Top, Bottom, Rear Entry |
| **Outlet type** | NEMA 14-50 (Leader) | NEMA 14-50 (Follower) | NEMA 6-20 (Leader) | NEMA 6-20 (Follower) |
| **Protection** | Overcurrent, overvoltage, undervoltage, integrated surge protection, overtemperature protection | | | |
| **RFID Reader** | ISO 14443A | ISO 14443A | ISO 14443A | ISO 14443A |
| **Metering Accuracy** | ±2% | ±2% | ±2% | ±2% |
| **SIM Card Slot** | Supported | / | Supported | / |
| **Authentication methods** | QR Code, RFID, Charging app, Kiosk POS | | | |
| **Load Balancing** | Supported | Supported | Supported | Supported |
| **Anti-theft design** | Supported (Anti-theft screws) | Supported (Anti-theft screws) | Supported (Anti-theft screws) | Supported (Anti-theft screws) |
| **Plug removal detection** | Supported | Supported | Supported | Supported |

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# General characteristics and software updates

## General Characteristics

| Model | PTS Smart Outlet L14-50<br>UP10-20020CA0001 | PTS Smart Outlet F14-50<br>UN10-20020C00001 | PTS Smart Outlet L6-20<br>UP04-10020CA0001 | PTS Smart Outlet F6-20<br>UN04-10020C00001 |
|---|---|---|---|---|
| **Enclosure rating** | NEMA 3R (with weatherproof cover), IK08, UL94 V-0 | | | |
| **Operating altitude** | 6,562 ft | | | |
| **Operating temperature range** | -22°F ~ 122°F (-30°C ~ 50°C) | | | |
| **Storage temperature range** | -40°F ~ 158°F (-40°C ~ 70°C) | | | |
| **Mounting** | Wall-mounted or Floor standing with a pedestal | | | |
| **Dimensions (H×W×D)** | 10.79 in × 6.85 in × 2.87 in | | | |

## User Interface

| | | | | |
|---|---|---|---|---|
| **Status indication** | LCD (1.4inch, 320×320), LED, Buzzer | | | |
| **User interface** | APP, Screen | APP, Screen | APP, Screen | APP, Screen |
| **Connectivity** | 4G(eSIM), Wi-Fi (2.4G/5G), Wi-SUN | Wi-Fi (2.4G, local communication), Wi-SUN | 4G(eSIM), Wi-Fi (2.4G/5G), Wi-SUN | Wi-Fi (2.4G, local communication), Wi-SUN |
| **Communication protocols** | OCPP 1.6J, OCPP 2.0.1 | / | OCPP 1.6J, OCPP 2.0.1 | / |
| **Local networking method** | Wi-SUN, Wi-Fi (with router) | Wi-SUN, Wi-Fi (with router) | Wi-SUN, Wi-Fi (with router) | Wi-SUN, Wi-Fi (with router) |

## Software Update

| | | | | |
|---|---|---|---|---|
| **Software update** | OTA updates via Setup app or O&M | Leader Smart Outlet or Bluetooth via Setup app | OTA updates via Setup app or O&M | Leader Smart Outlet or Bluetooth via Setup app |

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# Certifications, design life and warranty

## Certification and Standard

| | |
|---|---|
| **Safety standards** | UL 3141, CSA 343, CSA C22.2 No.0.8-19(R2024), CSA C22.2 NO.(E)60730-1-15 AMD1:2017, AMD2:2021, UL 60730-1:2021 |
| **Codes and standards** | FCC Part 15 Class B, NEC Article 625 |
| **Lifespan** | 10 years |
| **Warranty** | 5 years |

# Leader and Follower network topology

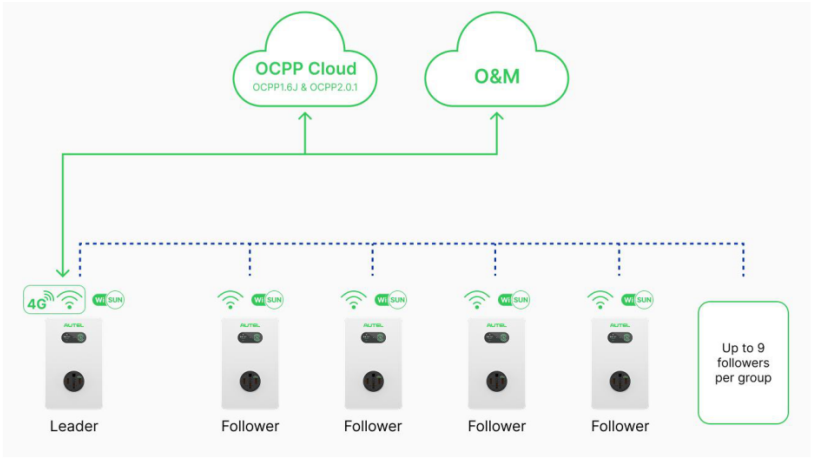
*Key Feature Differences between Leader and Follower*

### LEADER & FOLLOWER

Smart Outlet deploys as groups of one Leader and up to nine Followers.

The Leader with built-in 4G/ Wi-Fi connects the group to the cloud and works standalone or with up to nine Followers.

A Follower runs through its Leader, same power and smart features, with no separate cloud connection.




## CONNECTIVITY

**LEADER**
Built-in 4G / Wi-Fi — connects the group directly to the cloud.

**FOLLOWER**
No separate connection needed — joins through the Leader over secure local networking.

## PLATFORM ACCESS

**LEADER**
Connects directly to charging platforms (OCPP 1.6J / 2.0.1) and the O&M platform.

**FOLLOWER**
Communicates locally with the Leader — no separate cloud connection.

## SETUP & SERVICE

**LEADER**
Configured and serviced directly — Setup app . O&M platform, remote diagnostics

**FOLLOWER**
Set up, monitored, and updated through the Leader — or configured on site via Bluetooth.

## UPDATES

**LEADER**
OTA updates over the cloud.

**FOLLOWER**
Updated through the Leader, or on site via Bluetooth

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# Configuration and application notes

## Network

One 4G/Wi-Fi Leader can operate alone or serve up to nine Followers over local Wi-Fi and Wi-SUN. Supports shared power allocation and OCPP 1.6J and 2.0.1.

## Driver access and security

Untethered NEMA outlet with 1.4-inch LCD, on-screen QR code, RFID, compatible kiosk payment, plug-removal detection, tamper-resistant fasteners and thermal protection.

## Source benchmarks

Five-minute setup target, over 98% uptime and under 0.5% hardware failures in source literature. The cited Leader/Follower cost comparisons are up to 50% lower hardware costs and 70% lower SIM costs.

Specifications and hardware warranty terms vary by configuration. Confirm the selected equipment and coverage with Power Technology Solutions.