LEWDEN

The Electricians' Choice

SIENA®

MODE 3 EV SMART CHARGER

Product Catalogue 2024

LEWDEN

The Electricians' Choice

LEWDEN'S EV ECOSYSTEM:
THE END-TO-END CHARGING SOLUTION,
FROM INFRASTRUCTURE TO VEHICLE PLUG-IN

Lewden, a trusted manufacturer of electrical solutions
since 1946, introduces SIENA - a smart, efficient, and
reliable EV charger for residential and commercial
settings in the UK market. As EV adoption grows,
SIENA offers an effortless charging experience, backed
by Lewden's legacy of quality and innovation.
It's more than a charger - it's part of Lewden's complete,
end-to-end EV ecosystem, from infrastructure to plug-in.

EV — AC MODE 3 EV FAST CHARGING POINT

⊙ — TYPE 2 CHARGING SOCKET

⚡ — TETHERED OR UN-TETHERED OPTIONS

Discover Siena
the new way- visualize
before installation.

CE UK CA ⚠ TÜVRheinland CERTIFIED **3 YEARS WARRANTY**

lewden.com

2 |

SIENA®

Your reliable partner for EV Charging

⌄ Smart & Efficient

SIENA is designed to be smart, it features dynamic load balancing, app-controlled scheduling, and solar compatibility for cost-effective and efficient charging.

⌄ Reliable

Manufactured by Lewden, a trusted name in electrical products since 1946, it stands out for its durability and compliance with UK regulations. It includes built-in safety features like RCD protection, surge protection, and open PEN fault detection, ensuring both safety and long-term reliability.

⌄ Easy to Install

The charger comes with a detachable backplate and user-friendly Monta app for simple setup, remote control, and monitoring. The charger is flexible, with tethered and untethered options, designed to suit UK homes.

With the introduction of the Siena 7.4kW Single Phase AC Mode 3 Smart Charger, Lewden's EV ecosystem continues to evolve.

The Siena EV Charger is designed to make charging your electric vehicle at home as easy and efficient as possible. With its fast 7.4kW charging, Siena keeps you ready for the road while saving you time.

Its sleek, modern design fits seamlessly with any home exterior, combining functionality with a minimalist aesthetic. The smooth finish and compact build ensure it not only performs well but also adds a touch of sophistication to your property, making the Siena charger a stylish and practical addition to your home.

S I E N A ®

PRODUCT FEATURES

Solar Integration

Easily integrate with solar panels to use renewable energy for eco-friendly, cost-saving charging.

Enhanced Safety

Advanced safety features like PEN fault protection ensure secure and reliable charging for your EV and home.

Flexible Power Output

Adjustable power settings from 13A to 32A make Siena adaptable to various home electrical systems.

Sleek Design

The Siena charger's modern, streamlined look complements any home while providing efficient charging.

Weatherproof Durability

Built with an IP55-rated enclosure, the Siena charger is designed to withstand outdoor conditions, ensuring reliable performance in all weather.

Unique Backplate Design

The detachable backplate simplifies installation, allowing electricians to securely mount and wire the system with greater precision and ease, reducing the risk of damage during installation and making maintenance straight-forward.

VERSION

Tethered outlet with 5m charging cable

Part Number: 672151

Quick and Easy
The attached cable allows for fast plug-and-play charging without the need to handle separate cables.

Ready to Use
Always have the charging cable on hand, making it ideal for frequent charging without extra steps.

Un-tethered socket outlet

Part Number: 672150

Flexible Cable Options
Users can select their preferred cable length and easily swap cables if needed.

Customisable Setup
Offers the flexibility to keep the charging area free of cables when not in use, for a more tailored and sleek look.

Control

- RFID ACCESS CONTROL WITH 2 FOBS
- SCHEDULING CHARGE TIMES
- SOLAR PV COMPATIBLE
- MAXIMUM OUTPUT CURRENT ADJUSTMENT
- DYNAMIC LOAD MANAGEMENT
- ACTION BUTTON
- ADJUSTABLE LED BRIGHTNESS

Communication

- WIFI, BLUETOOTH AND ETHERNET COMPATIBLE
- SMART APP CONTROL
- OCPP 1.6 CHARGING PROTOCOL
- DOWNLOADABLE SOFTWARE UPDATES
- POWER METERING
- POWERED BY MONTA
- LEWDEN CONNECT APP

Protection

- 30 mA TYPE A + 6 mA DC FAULT PROTECTION
- PEN PRODUCTOR FAULT PROTECTION
- SURGE PROTECTION
- TAMPER BOUNDARY BREACH
- OVER CURRENT & UNDER / OVER VOLTAGE
- OVER TEMPERATURE
- LOSS OF PROTECTIVE EARTH TO VEHICLE

S I E N A®

EASY & EFFICIENT INSTALLATION

SUSTAINABLE PACKAGING

Using eco-friendly materials, aligning with our commitment to reducing environmental impact and supporting a greener future.

DRILLING TEMPLATE

Designed to make installation quick and easy, ensuring perfect alignment every time.

BACKPLATE DESIGN

Detachable backplate streamlines installation, enabling precise and effortless mounting and wiring. This safeguards the charger from potential damage during setup and simplifies future maintenance.

VIEW SIENA IN AUGMENTED REALITY

Visualise before installation.

MAX. OUTPUT CURRENT ADJUSTMENT

For installations with limited supply capacity, the charger's output can be adjusted via a rotary switch, set by a technician at commissioning to ensure safe operation without overloading.

EASY DOCKING OF CHARGER

Effortless final installation: simply dock and secure the charger body once all wiring is complete. Ready to go!

SMART CONNECTIVITY

Control your charging through our partner for complete convenience.

Lewden Connect App

Download for quick Wi-Fi / Bluetooth setup and basic configuration, ensuring the charger is all set to power your EV.

Monta App

Offers advanced control and monitoring, allowing customers to manage charging schedules and optimize for efficiency.

Accessories

RFID FOB

Part numbers: 672900

RFID access control - tap the fob for safe and secure, app-free charging.

Split CT Core

Part numbers: 672901

The Siena EV Charger comes with a split-core current transformer (CT) for dynamic load balancing. An Optional split-core CT enables seamless solar integration, allowing the charger to optimise energy use by drawing power directly from your solar system for efficient, eco-friendly charging.
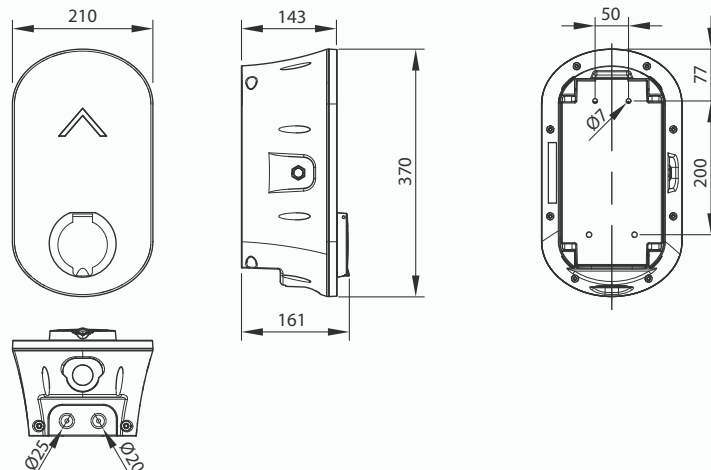
SIENA®

TECHNICAL SPECIFICATIONS

■ Technical Specifications

Part numbers	Tethered: 672151 / Untethered: 672150
Rated Input	230VAC 50/60Hz ±10%
Rated output	7.4kW (32A 230V)
Charging Current	Installer adjustable from 13-32A in 9 pre-defined steps
Charging Protocol	Mode 3
Output interface	IEC62196-2 type 2 AC charging socket / connector
Communications	• Wi-Fi 802.11 b/g/n 2.4GHz • RJ45 Ethernet connection 10M/100M Base-T • Bluetooth (for installer configuration purposes) • USB port (For firmware upgrades only) • Open charge point protocol (OCPP1.6)
Built in Protection features	• PEN conductor fault <207V & >262.2V for 0.2 seconds • Residual Current Fault 30mA type A and DC 6mA with self-test • Over temperature (Stage 1 >80°C / Stage 2 >90°C) • Output overcurrent (A+2 for max output ≤20A) (Ax1.1 for max output >20A & ≤32A) • Input Overvoltage >253V for 4.5 seconds (Phase voltage) • Ground failure (between charge point and vehicle) >70VAC • Surge Protection • Tamper boundary switch
Standy Power Consumption	4W
Measurement Accuracy	±1%
Overall Dimensions	370h x 210w x 164.5d (mm)
Shell Construction material	Polycarbonate and ABS
Ingress Protection rating	IP55
Impact resistance rating	IK08
Ambient Operating temp.	-30°C to +50°C
Weight	Tethered 4.5kg / Untethered 3kg
Incoming cable termination	4-16mm²

■ Standards Compliance

Charging System	BS EN IEC 61851-1: 2019 • UK Smart Charging Regulations 2021 (SI1467 inc. Schedule 1 & 2)
Safety Compliance	UK safety regulations 2016 (SI1101) • Low voltage directive 2014/35/EU
Charging Interface	BS EN IEC 62196-2: 2022
EMC Compliance	BS EN IEC 61851-21-2: 2021 • EN IEC62311: 2020 • BS EN IEC61000-6-1: 2019 • BS EN IEC61000-6-3: 2021
PEN fault protection	BS7671: 2018 +A2: 2022 section 722
Communication Technology	EN 300 328 v2.2.2: 2019 • EN 300 330 v2.1.1: 2017 • EN 301 489-1 v2.2.3: 2019 • EN 301 489-3 v2.1.1: 2019 EN 301 489-17 v3.2.4: 2020 • EN 301 489-52 v15.1.1: 2021• EN 301 908-1 v15.1.1: 2021 • EN 301 908-13 v13.2.1: 2022
RDC-DD	IEC62955: 2018

■ Dimension

SMART CONTROL

The SIENA EV charger, paired with Monta's powerful app, brings cutting-edge features and user-friendly control, all designed to make home charging simple, efficient, and affordable. With the Monta app, users can easily schedule charging during off-peak hours to save on energy costs, monitor their EV's charging status in real-time, and receive instant updates - all from a smartphone.

SmartCharge
Automaticall optimizes charging during off-peak hours to minimize costs.

Virtual SolarCharge
Integrates with your home solar panels for eco-friendly power.

Dynamic Pricing & Smart Booking
Save with up-to-date pricing and reserve public chargers.

Load Balancing
Efficiently distributes power across multiple chargers.

PowerBank
Balance the grid and earn energy credits while charging.

InstantCharge
Allows guest charging without app downloads.

IMMEDIATE & EXTENSIVE TECHNICAL SUPPORT

- **Online Guides**
  hitps:/monta.com/uk-help-center/
- **Customer Contact**
  https:/monta.com/uk/support
- **Within Monta App**
  /me/support

Connecting all dots in the **EV Ecosystem**

100A DP metal fused switch

- Available in choices of 63A, 80A, 100A.

SLM2-MS

- Available in 2 module enclosure complete with 100A DP Main Switch - suitable for domestic use. Also available in 4 module enclosure for commercial use.
- Ingress rating IP20 IK07.
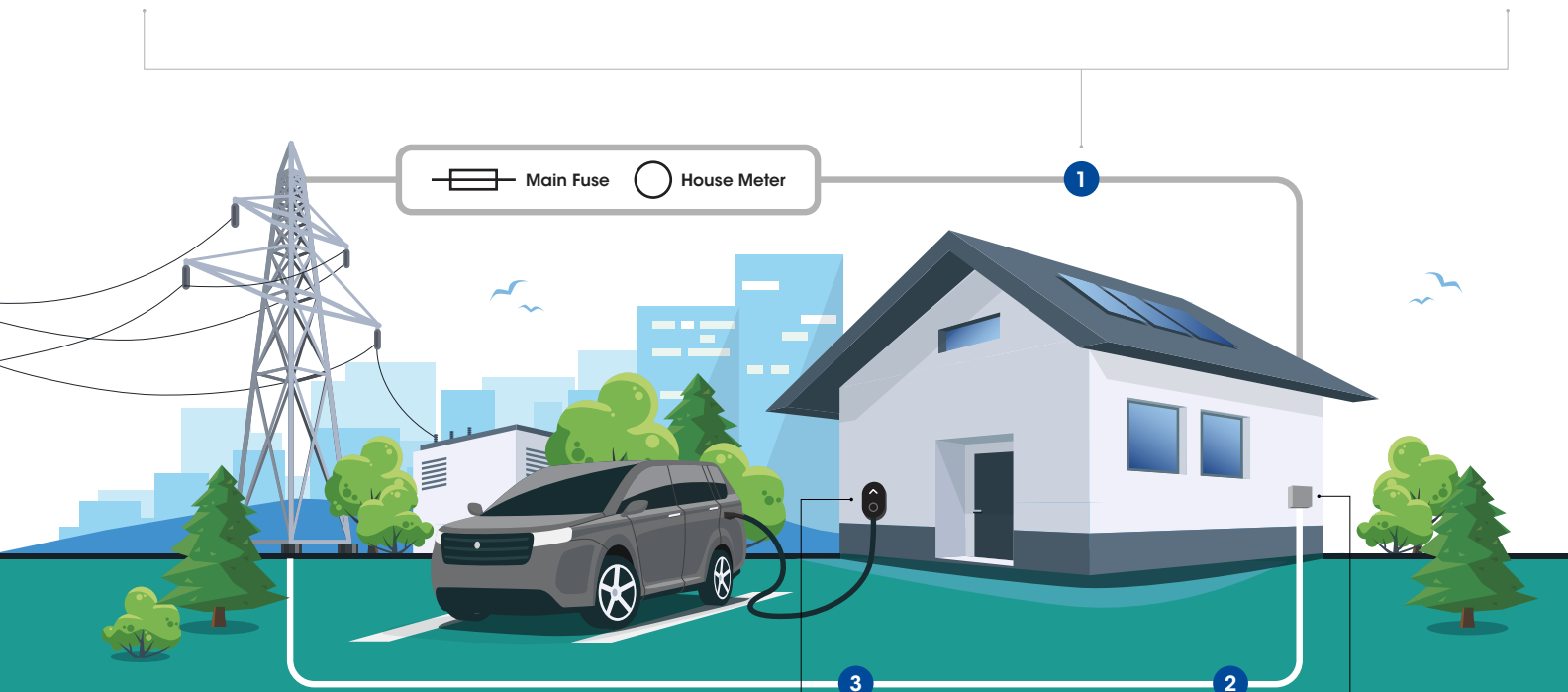- Designed for use with 16mm² & 25mm² double insulated meter tails type 6181Y.

Distribution terminals

- 6 different colour-coded terminals for quick identification of phase, neutral, earth and functional Earth connections.

Main Consumer Unit

- Variety of solutions in our extensive Consumer units range. Choose from Dual RCD solutions, RCBO solutions, RCD Incomer solutions, Dual Tariff boards, Retrofit surge protection range and more.

Main Fuse   House Meter

1

3

2

Scan the QR Code to Explore our EV SOLUTIONS!

SIENA

- 7.4kW AC 32A Charger.
- Mode 3 EV Fast Smart Charging Point.
- Open Charge Point Protocol 1.6.

EV Consumer Unit

- Populated with a 100A 2P main switch, a type 2 surge protection device, and a B40A 1P 6kA MCB, plus a bi-directional Type A 30mA RCD.
- IP65-rated.
- Available in metal and polycarbonate enclosures.

Aluminium Alloy   Polycarbonate

Bi-directional RCBOs

- 6kA range - TYPE A, B-Curve Bidirectional RCBOs.
- Available in 6A - 40A current ratings.

MCBs

- 6kA range is available in 1/2/3/4 Poles in B & C trip curves from 6A-63A.
- 10kA range is available in 1/2/3 Poles in B/C/D trip curves from 6A-63A current ratings.
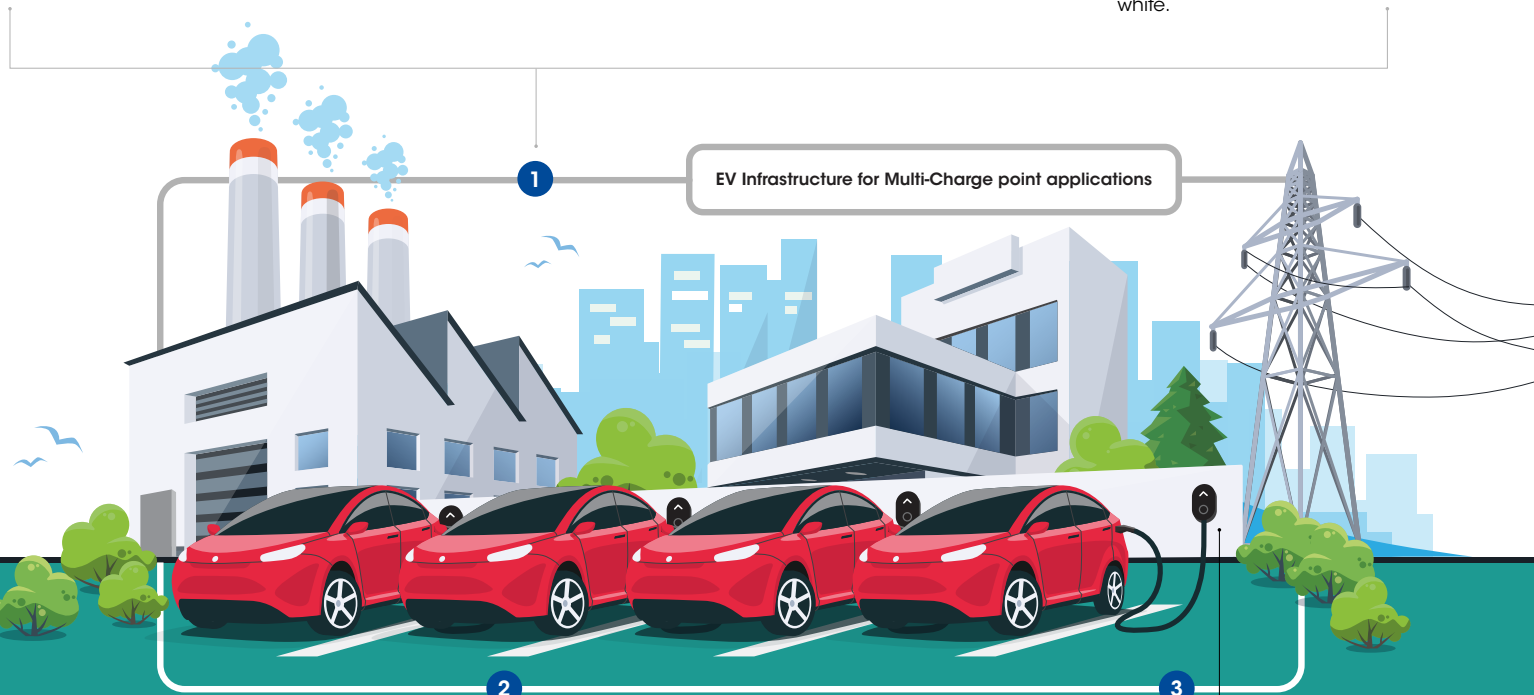
Main switch

- Available in 2 Pole for 6kA range and 3/4 Pole for 10kA range.

SPDs

- Type 1 and Type 2 surge protection devices designed for various applications - suitable for single or three-phase applications.
- They are compatible with both TN (TN-S & TN-C-S) and TT earthing arrangements.

TP&N Distribution Boards

- Designed & Engineered in the UK
- Four modular sizes available: 4, 8, 12 & 16 TP outgoing ways.
- Compatible with the 6kA & 10kA circuit protection range.
- All steel construction finished with a powder coating in RAL9003, white.

1 EV Infrastructure for Multi-Charge point applications

EV Feeder Pillars

- Customizable Distribution Cabinets for Multiple EV Charging.
- The standard range is available in five different current ratings 100A, 125A, 200A, 400A & 630A in Metal or GRP.
- We CUSTOMIZE AS YOU WISH!

SIENA

- 7.4kW AC 32A Charger.
- Mode 3 EV Fast Smart Charging Point.
- Open Charge Point Protocol 1.6.

WHERE TO BUY?

Find your preferred supplier from a network of trusted sellers where you can purchase Lewden products and accessories.

FOR SPECIAL ENQUIRY CONTACT

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  https:/monta.com/uk-help-center/
- **Customer Contact**
  https:/monta.com/uk/support
- **Within Monta App**
  /me/support

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