Lauritz Knudsen

Electrical & Automation

**Lauritz Knudsen Electrical & Automation.**
Electrical Standard Product, A/600, Shil-Mahape Road, TTC Industrial Area,
MIDC Thane, Mumbai - 400 710

**Customer Interaction Center (CIC)**
Phone No: 029 6032 78001 | Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

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EXPERIENCE
THE POWER OF AN

# INTEGRATED EV CHARGING ECOSYSTEM




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# ABOUT LAURITZ KNUDSEN

Lauritz Knudsen Electrical & Automation is a leading player in the Indian Electrical industry, drawing strength from over 70 years of rich heritage and a steadfast dedication to contributing towards the growth of India. The brand currently exports to 30+ countries and is dedicated to providing a wide range of electrical and automation solutions to vital sectors of the economy, including industries, utilities, infrastructure, buildings, and agriculture. Our extensive portfolio includes low-voltage and medium-voltage switchgear, automation solutions, tailored software, and services.

With multiple manufacturing facilities in India, we adhere to global standards of excellence. Our operations are supported by well-equipped, in-house design and development centers, as well as tooling facilities, ensuring precision in manufacturing.

With a strong global footprint, supported by an expansive electrical distribution network in India and worldwide, our ambition is to foster excellence and provide top-tier products and solutions that drive the progress of nations globally.

We Listen. We Partner. We Innovate.



## We are Present

Our core strength lies in our cutting-edge in-house design and development center, dedicated to switchgear innovation. Complementing this is our state-of-the-art tooling facility, which designs and manufactures a wide array of high-precision tools—a critical component in producing top-tier products. This commitment to quality is bolstered by our PAN India sales and service network present across 500+ locations, ensuring seamless service and support through 1500+ sales partners and 100+ authorized service centers.



## We are Progressing

Harnessing our extensive experience in Electrical & Automation, we are excited to drive the new-age of mobility. Over the past few years, we have established ourselves as a preferred supplier within the EV ecosystem, delivering solutions to various stakeholders. Our offerings include wall-mounted charging units for automobile OEMs, LT switchgear components and accessories for charger manufacturers, and the entire power distribution infrastructure for charging hubs/depots – CSS, RMU, LT/HT panels, APFC panels, busbar trunking solutions, metering, etc.



## We are Partners

We are here to partner with you in enabling you to run your EV charging operations seamlessly. Introducing TECharge - our integrated solution of smart EV Chargers, our innovative Charging Management Software (CMS) and the most user-friendly Mobile Application - all designed to ensure a seamless experience for the charger host and the EV user.

Together, let's partner to bring new-age mobility to life, combining our legacy of excellence with the future of transportation.

# TECharge?

## About

TECharge represents our integrated EV charging ecosystem, combining a robust portfolio of AC and DC chargers with intelligent software solutions, including our SmartComm CMS and the TECharge mobile application. TECharge is a part of Lauritz Knudsen's new energy landscape portfolio which offers solutions across various emerging renewable energy markets.

## Why the name TECharge?

Pronounced "Tek-Charge", TECharge combines **'Tek'**, derived from Technology, and **'Charge'**, symbolising Energy. This name reflects our commitment to driving the future of electric mobility through smart, tech-enabled charging solutions.

At Lauritz Knudsen, we believe innovation should be inclusive. That's why our mission goes beyond just advanced technology. We aim to make EV charging easy, reliable, and accessible for every one.

# BENEFITS

Run your EV Charging Operations with our integrated solution of EV Chargers, Charging Management Software and a User Mobile App



Integrated Hardware+Software+App Ecosystem



Versatile Charging for all vehicle types



Smart monitoring and remote management



Intuitive mobile experience for EV users



Designed for reliability and compliance



Enhanced Property Value with Scalable Solutions

# AC CHARGERS

## WITH TYPE-2 CONNECTORS

Discover the TECharge range of AC chargers with Type-2 connector, designed for optimal performance and reliability. Charge 4W EVs efficiently with advanced technology tailored for home and commercial use.

### Variants

- Power: 7.4kW (1P), 11 kW (3P), 22 kW (3P)
- Connectivity: Public (WiFi, Ethernet 4G, LTE) with OCPP1.6J, Private (BLE)

### Protections

- Undervoltage, Overvoltage
- Overcurrent
- Surge protection
- Type-A Residual current
- Overtemperature

### Output Connector

- 5 meter cable with IEC-62196 Type-2 connector

### Compliance

- IS17017-1 and IS17017-21-2

### User Interface & Configuration

- Mobile App
- RFID
- LED Indications
- Energy metering Class 1
- Battery Backup 30 min for data transfer on power outage

### Mechanical / Installation

- Ingress Protection IP55
- Impact Resistance IK10
- Wall / Floor mounting (on stand)



# AC CHARGERS

## SMART SOCKETS

Introducing the TECharge range of AC Smart Sockets, designed for efficient and reliable EV charging. Compatible with any electric vehicle (using 6/16A plug with its portable charger) our smart technology ensures seamless energy delivery and enhances the charging experience.

### Variants

- Power: 3.3 kW (1 Phase)
- Connectivity: Public (WiFi, Ethernet 4G, LTE) with OCPP1.6J, Private (BLE)

### Protections

- Undervoltage, Overvoltage
- Overcurrent
- Surge protection
- Emergency Stop

### Output Socket

- 16A Domestic Type-D (or) 16A Industrial IEC60309

### Compliance

- IS17017-1 and IS17017-21-2

### User Interface & Configuration

- Mobile App
- RFID
- LED Indications
- Energy metering Class 1
- Battery Backup 30 min for data transfer on power outage

### Mechanical / Installation

- Ingress Protection IP54
- Impact Resistance IK08
- Wall / Floor mounting (on stand)



# DC CHARGERS

Designed for seamless integration into commercial, residential, charging hubs, public infrastructure, our DC Fast Chargers offer robust engineering, superior uptime and power flexibility for every application.

## Variants

- Standard Power Ratings:
  60kW, 80kW, 120kW, 160kW
- Upgradable Configurations:
  60kW upgradable to 120kW
  120kW upgradable to 160kW

## Output Connectors

- Dual CCS2 Connectors with cable length of 6 meters

## Protections

- Undervoltage, Overvoltage
- Overcurrent, Short Circuit
- Residual Current
- Surge Protection
- Over-temperature
- Insulation-monitoring

## Compliance

- IS17017-1 and AIS 138 Part 2

## User Interface & Configuration

- 10" HMI Colour Display
- LED Status Indicators
- Mobile App / RFID / QR Code based authentication
- Energy Metering Class-1 (DC)
- Ethernet / Wi-Fi / GSM Connectivity Options
- Dynamic Load Balancing
- OCPP 1.6j Compatible

## Mechanical / Installation

- Ingress Protection IP54
- Impact Resistance IK10
- Floor Mounting



SMARTCOMM CMS

# CHARGING MANAGEMENT SYSTEM

SmartComm CMS is a centralised software platform that streamlines the operations of your EV charging infrastructure. It enables real-time monitoring, remote control, user access, and billing management and hence ensuring efficient, scalable, and user-friendly charging infrastructure.

» **CENTRALIZED MANAGEMENT:**
Streamline operation of multiple charging stations

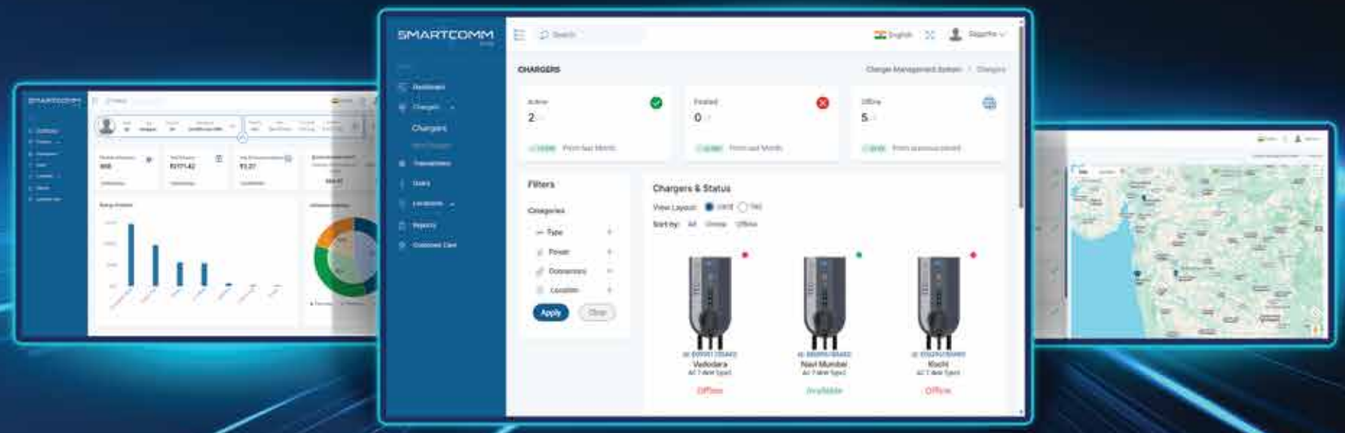
» **REAL-TIME MONITORING:**
Get live updates on the status and performance of each charging station

» **ENHANCED USER EXPERIENCE:**
Simplify billing and payment processes for users

» **DATA ANALYTICS:**
Offers valuable insights and reporting to help optimize network performance

» **OPERATIONAL EFFICIENCY:**
Reduce downtime and maintenance costs through proactive management

» **SCALABILITY:**
Easily adapt to the growing number of EVs and charging stations



TECharge

# TECharge USER MOBILE APPLICATION

Our user-friendly mobile app delivers a seamless charging experience, helping EV users locate stations, check real-time availability of chargers and monitor sessions remotely. It also supports seamless payments, advance bookings, and timely alerts.

- USER AUTHENTICATION
- STATION LOCATOR
- REAL-TIME INFORMATION
- SESSION MONITORING
- ADVANCE BOOKING
- PAYMENT INTEGRATION
- NOTIFICATION AND ALERTS

Download on the App Store

GET IT ON Google Play



# NEED A PERSONAL CHARGER?

Our Bluetooth-enabled **Chargers and Smart sockets present an ideal solution** for anyone who wishes to own and operate a charger in one's own parking area. Be it your apartment parking spot or your individual home, these chargers present an easy-to-use and economical solution to charge your 2 / 3 / 4 wheelers.




The 3.3kW smart socket is an ideal solution to plug-in and charge using the portable charger of your 2 / 3 or 4-wheeler.




The 7.4kW AC Charger comes with a host of protective features and can be easily set up using a single phase connection.







AUTHENTICATE USING AN RFID CARD OR THE MOBILE APP!

# NEED TO SET UP SHARED CHARGERS?

As a Facility Manager, setting up shared chargers on your premises—whether residential, commercial, or corporate—has never been easier. Connected to the internet, our smart chargers and sockets can be seamlessly integrated and managed via OCPP with a SmartComm CMS subscription. Together with the TECharge Mobile App, they offer the ideal integrated solution to run your EV charging operations seamlessly!

