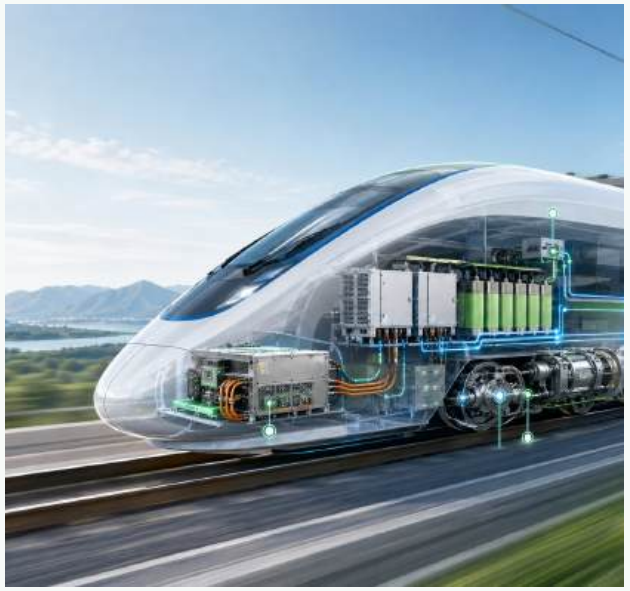
ELECTROHMS

Electrohms Company Profile

Current and voltage sensing solutions for critical power electronics



Railways • Renewable energy • Industrial power • EV charging • Automotive • IoT & monitoring

Electrohms at a glance

Bengaluru-based designer and manufacturer of current, voltage and custom magnetic sensing solutions for critical power electronics.

Electrohms combines standard product families with custom engineering for applications that require safe isolation, accurate measurement, rugged packaging and predictable production supply.

Engineering + production platform for high-reliability sensors

50+
years in custom magnetics and sensing

180
employees across design, operations and quality

15+
design engineers for NPI and variants

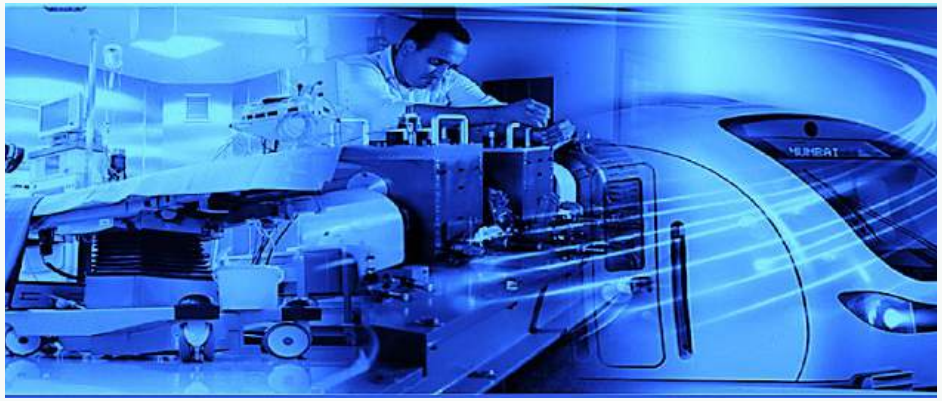
2
ISO 9001 facilities in Bengaluru

70k+ sft
footprint, expanding capacity

$6M
approx. sales in FY26 from sensor markets

Private, engineering-led company with deep application ownership across rail, energy, industrial, EV and monitoring markets.

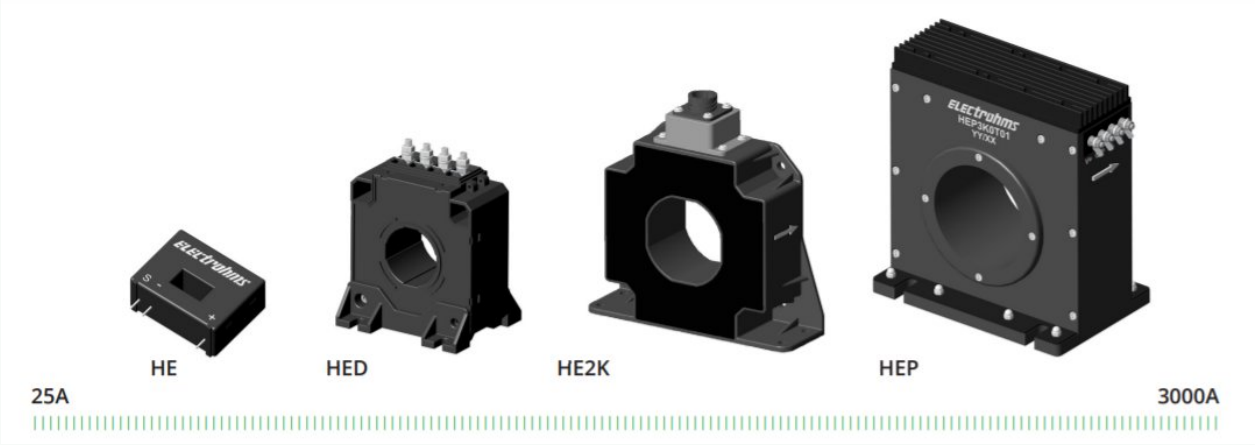
A 50-year journey in measurement and custom magnetics



1990	1995	2009	2018	2021	2024
Telecom magnetics for digital switches	Current transformers for electronic energy meters	Hall-effect current sensors	Railway traction current and voltage sensors	IoT sensor range	EV market sensor range

A history of being first in India

Designing and manufacturing current and voltage measuring transformers and sensors for critical applications.



Standard range + custom variants

Platform continuity across metering, rail traction, high-power converters, EVs and smart monitoring.

Application footprint across critical power markets

The same underlying requirements repeat across sectors: safe galvanic isolation, accurate AC/DC measurement, predictable drift behavior, rugged packaging and qualification discipline.

Railways

traction converters, auxiliary converters, ERRU, onboard and trackside sensing

Renewable energy

solar inverters, wind converters and grid-tie power conversion

Industrial power

AC/DC drives, UPS, welding, automation and protection/control

EV charging

AC wall chargers, DC fast chargers, leakage and high-voltage sensing

Automotive

traction inverter, motor control, onboard charging and BMS sensing

IoT & monitoring

battery monitoring, smart metering, industrial 4.0 and retrofit split-core sensors

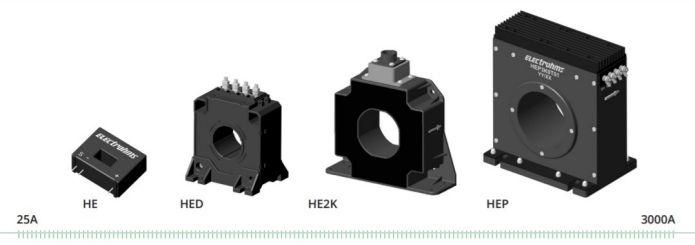
Electrohms is built for customers who need application-specific sensing, not catalog-only substitution.

Product family snapshot

Electrohms offers a broad standard portfolio with application-specific electrical, mechanical, output and qualification customization.

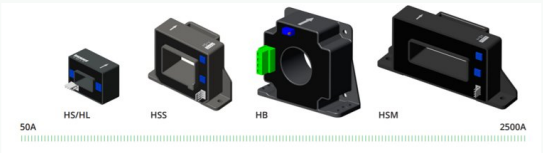
Closed-loop Hall current sensors

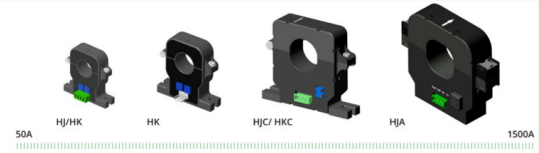
HE / HED / HE2K / HEP | 25A - 3000A AC/DC | high accuracy, low drift, fast response, isolation up to 12 kV



Open-loop and split-core current sensors

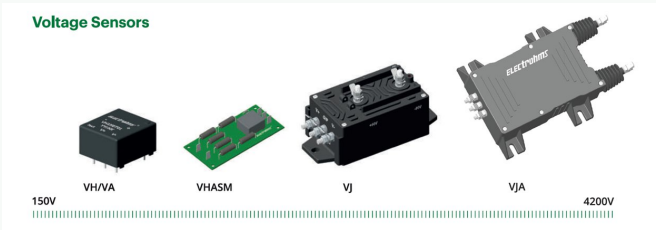
HL / HSS / HB / HSM / HJ / HK / HJB | 50A - 2500A AC/DC open-loop; retrofit up to 1500A





Voltage sensors

VH / VHASM / VJ / VJA | 150V - 4.2kV AC/DC input | galvanic isolation options upto18 kV



AC CTs, leakage and monitoring sensors

CT and FLA families | 1A - 1500A AC/DC | metering, protection, leakage and IoT monitoring

Technology platform and roadmap

Electrohms builds on a Hall-effect and magnetic-sensing foundation while actively developing fluxgate technology for precision DC measurement applications.

Open-loop Hall

compact, cost-effective AC/DC measurement for drives, chargers and monitoring

Closed-loop Hall

compensation winding for low drift, high accuracy, dynamic performance

Voltage isolation

DC/AC voltage sensing with high galvanic isolation and high common-mode immunity w

Fluxgate roadmap

active platform development for high-precision, low-offset DC sensing and future zero-flux architectures

Roadmap direction

- Precision DC sensing using fluxgate technology for low drift and high resolution.
- Extend platform learnings from compact BMS/EV sensing into higher-current converter use cases.
- Low current ASIC platform using xMR technology

Target applications: BMS, precision monitoring datacenters, high power converters, smart grid and HVDC

Custom engineering and NPI engine

A key part of the Electrohms proposition is fast application-specific adaptation without forcing customer platform compromises.

01 Requirement capture → **02 Design iteration** → **03 Prototype build** → **04 Qualification** → **05 Production control**

application current/voltage/EM profile, envelope, connector, output, compliance

core, electronics, package, thermal, Emi, isolation and calibration concept

rapid samples for bench and system integration

type tests, compliance checks and reliability validation

automated test setup, traceability and 100% testing

Customization levers

- Current / voltage range and waveform profile
- Primary aperture, busbar geometry and mounting
- Connector, pinout, cable, output signal and communication interface
- Thermal, isolation, calibration and qualification profile

Facilities built for high-reliability sensor assemblies

New facility open June 2026

Peenya + Yeshwanthpur, Bengaluru

Electrohms operates Bengaluru facilities combining manufacturing discipline, automated test coverage and quality systems for critical sensor supply.

2
ISO 9001:2015 certified facilities

60k+
sq ft manufacturing footprint

93%+
consistent on-time delivery

- Automated testing setups and 100% production testing
- Burn-in, vacuum encapsulation and process controls
- Supplier traceability and electronic component controls
- Capacity expansion toward 70k sq ft with new Peenya facility

Process depth matters when sensors sit inside converters, chargers, drives and safety-critical monitoring systems.

Reliability starts at design and carries through production

Electrohms combines design discipline, qualification testing and production controls to deliver high-reliability sensor products.

Design processes

- Magnetic and Electrical simuation
- DFMEA and APQP approach
- engineering review loops
- customer-specific qualification data

Qualification tests

- temperature cycling
- dry and damp heat
- vibration and EMI

Production controls

- 100% automated testing
- burn-in where needed
- traceability and supplier quality

Compliance references

- ISO 9001:2015
- CE, RoHS / REACH
- EN50155, EN50178 / IEC 62477, IEC 61010-1

Standards alignment

Electrohms product families are designed and tested for industrial, rail, renewable, automotive and charging applications. Product-specific UL/CSA certification can be pursued based on customer demand.

Market credibility across rail, energy and power electronics

Electrohms has built field experience across railway traction, industrial converters, clean energy, EV charging, metering and smart monitoring applications.

Rail traction pedigree

Current and voltage transducers for ERRU, traction converters, hotel-load and auxiliary converter applications.

Power electronics depth

Sensors used in drives, UPS, welding, industrial automation, solar/wind converters and charging infrastructure.

Custom fit for OEM platforms

Mechanical, electrical and output customization backed by in-house design and production.

Selected customer references

Experienced people behind the sensing platform

Customers need more than parts: direct engineering ownership, quality accountability and leadership continuity through qualification and production.

180
employees

15+
design engineers

25 yrs avg
leadership continuity

R&D
NPI support

Gautham Krishnan

Managing Director — electrical engineer; innovation and quality focus across electronics and metallurgy.

M.S. Giridhara

Technical Director / Chief Engineer — precision power electronics, analog instrumentation and magnetics.

R. Guruprasad

GM - Marketing — 30+ years in electrical products; international markets, prior GE and Elpro experience.

Revathi N.

Operations & QMS — quality assurance, inspection, testing, vendor qualification and ISO 9001 lead auditor.

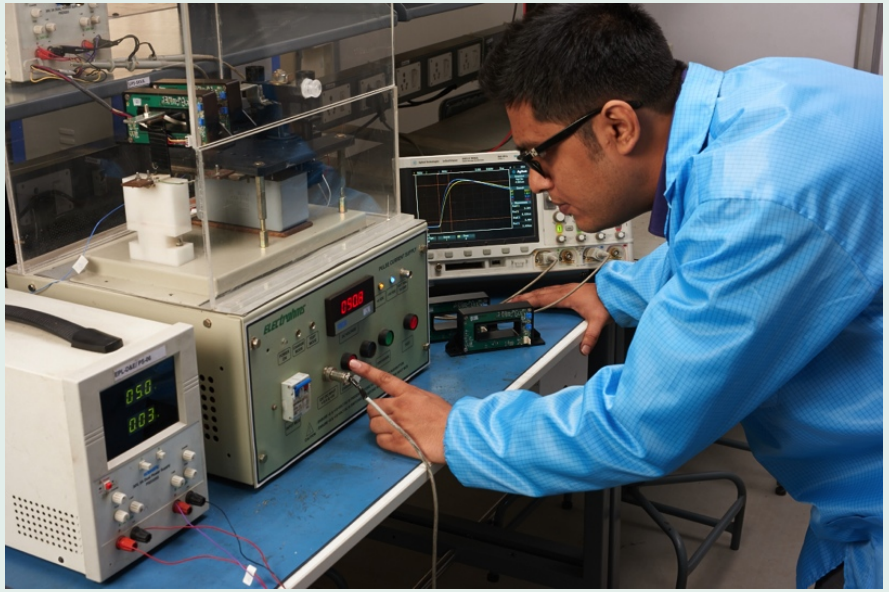
Focus on innovation

Long-term technical relationships strengthen Electrohms' product roadmap and next-generation sensing development.

Long-term technical relationships

Electrohms has a long history of technical collaboration with leading institutions in India and abroad, including IISc Bengaluru, NaMPET, CSIR-NAL, IIT Kanpur, IIT Madras and NITK Surathkal.

- IISc Bengaluru
- NaMPET
- CSIR-NAL
- IIT Kanpur
- IIT Madras
- NITK Surathkal



Collaborative development that expands the sensing roadmap

Cutting-edge work

Active work areas include high isolation, low power, planar magnetics, xMR, optical isolation and fluxgate.

- High isolation
- Low power
- Planar magnetics
- xMR
- Optical isolation
- Fluxgate

Partnership-led innovation supports Electrohms' evolution from proven Hall platforms toward next-generation precision sensing.

Why Electrohms

A one-stop sensing partner for customers building critical power electronics systems.

Breadth	Current, voltage, AC CT, leakage and custom magnetics in one engineering platform.
Customization	Electrical, mechanical, connector, output and qualification adaptation for OEM platforms.
Reliability	DFMEA/APQP, qualification tests, automated production tests and traceable supply.
Application evidence	Rail traction, renewable energy, industrial, EV, automotive and monitoring use cases.
Technology roadmap	Active fluxgate development for precision sensing and future zero-flux applications.