

● OFFERINGS

EV charging, end to end.

Two AC chargers and one management platform, built by the same team. Tech OVN makes the hardware, writes the firmware and runs the back office — so a single home charge point and a multi-site public network sit on one stack, speak the same protocols and bill from the same metrology-grade data.



HARDWARE · AC001

Bharat AC-001

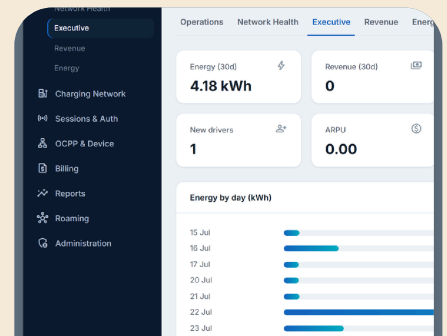
3.3 kW wall-mounted home charger with Class 1 metering built in.



HARDWARE · TYPE 2

Type 2 Smart AC

3.3 to 22 kW, single or three phase, with a 5 m tethered cable.



SOFTWARE · CSMS

TitanFlux

Deploy, monitor, manage and monetise a network from one console.

01 How it fits together

ONE STACK, FROM THE WALL TO THE INVOICE

HARDWARE

The charger

AC001 or Type 2. Class 1 energy meter, electrical protection and RGB status indication built into the enclosure.

→
OCPP
1.6J

SOFTWARE

TitanFlux CSMS

Registration, live status, smart charging, tariffs, CDRs, faults, firmware and reporting for chargers of any brand.

→
APP
OCPI

USERS

Drivers & operators

Android and iOS app for drivers, browser console for operators, and OCPI roaming beyond your own estate.

02 Chargers compared

TWO UNITS, ONE BACK OFFICE

	Bharat AC-001	Type 2 Smart AC
Best suited to	Homes and small sites	Workplace, commercial, public
Power rating	3.3 kW	3.3 / 7.4 kW or 11 / 22 kW
Supply	Single phase	Single or three phase
Connector	3 pin 15 A or industrial (IEC 60309)	Type 2, 5 m tethered cable
Energy meter	Built in, Class 1	Built in, Class 1
Authentication	Mobile app	Mobile app or RFID card
Connectivity	WiFi, Bluetooth, 4G (optional)	4G, WiFi, Ethernet
Ground fault / RCD	Optional	Yes, as standard
Surge protection	Optional	Yes, as standard
Protocol	OCPP 1.6J	OCPP 1.6J
Design rating	IP 55, wall mounted	IP 55, wall mounted

Where TitanFlux fits

Both chargers speak OCPP 1.6J, so either can be pointed at TitanFlux — or at any other OCPP back office. Equally, TitanFlux manages OCPP chargers from other vendors. There is no hardware lock-in in either direction; buying the two together simply removes the integration work.

03 Home charging, built to last

AC001 · WALL MOUNTED · 3.3 KW

A wall-mounted 3.3 kW smart AC charger with built-in Class 1 energy metering, OCPP 1.6J and electrical protection as standard. IP 55 rated for indoor and outdoor installation.

Metering inside

A Class 1 energy meter is built into the charger, so every session is measured for billing without an external meter.

Connect any way

WiFi and Bluetooth as standard, 4G optional — no gateway hardware needed on site.

Safe by default

Over-current, over and under voltage and an emergency stop button as standard; RCD and surge protection optional.

Driver-friendly

Authentication through the mobile app, with an RGB LED showing charge state at a glance.



CHARGING

Power rating	3.3 kW
Connector	3 pin 15 A or industrial (IEC 60309)
Mounting	Wall mounted
Design rating	IP 55

LOAD MANAGEMENT

Energy meter	Built in, Class 1
Display	Optional
Indication	RGB LED

BUILT-IN SAFETY

Over current	Yes
Over / under voltage	Yes
RCD	Optional
Surge protection	Optional
Emergency stop	Button on unit

CONNECTIVITY

Links	WiFi, Bluetooth, 4G (optional)
Protocol	OCPP 1.6J
Authentication	Mobile app

COMPLIANCE

OCPP 1.6 compliant · Class 1 metering · IP 55

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04 Type 2 charging, up to 22 kW

TYPE 2 · WALL MOUNTED · 3.3 TO 22 KW

A wall-mounted Type 2 smart charger from 3.3 kW to 22 kW with a 5 m cable, RFID or app authentication, built-in Class 1 metering and OCPP 1.6J. Ground fault detection, surge protection and emergency stop are standard.

One unit, four ratings

3.3 or 7.4 kW single phase, 11 or 22 kW three phase — the same wall-mounted enclosure and the same back office.

Metering inside

A Class 1 energy meter is built into the charger for accurate session billing and site load management.

Connect any way

4G, WiFi and Ethernet on board with OCPP 1.6J, so the charger reaches any CPO platform.

Two ways in

RFID card or mobile app authentication, with an RGB LED showing charge state at a glance.



CHARGING

Power rating	3.3 / 7.4 kW or 11 / 22 kW
Connector	Type 2, 5 m cable
Mounting	Wall mounted
Design rating	IP 55

BUILT-IN SAFETY

Over current	Yes
Over / under voltage	Yes
Ground fault detection	Yes
Surge protection	Yes
Emergency stop	Button on unit

LOAD MANAGEMENT

Energy meter	Built in, Class 1
Indication	RGB LED

CONNECTIVITY

Links	4G, WiFi, Ethernet
Protocol	OCPP 1.6J
Authentication	Mobile app or RFID

COMPLIANCE

OCPP 1.6 compliant · Class 1 metering · IP 55

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05 TitanFlux — deploy, monitor, manage, monetise

FROM COMMISSIONING TO SETTLEMENT

Run an EV charging network from a single console. Built on open standards — OCPP and OCPI — TitanFlux works across charger brands and scales from one site to a large multi-site network.

OCPP 1.6J & 2.0.1

Any OCPP charger, any brand — no hardware lock-in.

Console and app

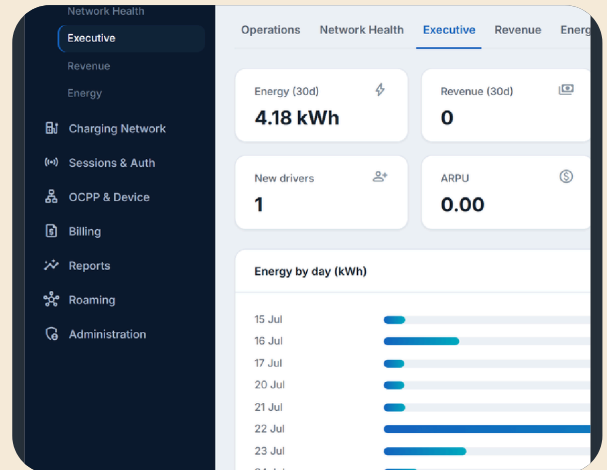
Web console for operators, Android and iOS for drivers.

Roaming over OCPI

Charge beyond your own estate, settlement included.

Multi-tenant

Separate operators on one platform, with a full audit trail.



Charging network management

Register, approve and configure chargers of any brand; live connector status, remote start/stop and reset.

Smart charging

Site-level load limits, per-session profiles and current limiting, with reduced-capability states shown clearly.

Commissioning & onboarding

Guided setup for WiFi, 4G/SIM or Ethernet — register a charger, point it at the platform, it comes online.

Real-time monitoring

Live network dashboard, interactive map and station views — status, sessions and alerts pushed instantly.

Reservations

Drivers reserve a connector ahead of arrival, with managed reservation and expiry handling.

Roaming (OCPI)

Exchange locations, authorisation and settlement data so drivers can charge beyond your own estate.

Fault & alert management

Automatic detection with severity levels, guided handling, self-recovering vs. service-required flags.

Tariffs, billing & payments

Flexible tariffs with price preview, automatic CDRs, driver wallets and business invoicing.

Reporting & analytics

Usage, energy, uptime and revenue reporting with exports, plus executive dashboards.

Sessions & transactions

Authorise, start, monitor and stop, with live meter values and auditable CDRs.

Driver mobile app

Android and iOS — find chargers with live availability, start, stop, reserve, pay and manage a wallet.

Multi-tenancy & administration

Separate operators on one platform, role-based access, MFA sign-in and a full audit trail.

Access & authorisation

RFID tap-to-start, remote start from the app, and local auth lists that keep working through outages.

Firmware & device management

Signed OTA campaigns, session-aware updates that never cut a driver off, remote diagnostics and logs.

Security & compliance

TLS and mutual-TLS, certificate and PKI management, signed OTA firmware.

06 Who TitanFlux is for

ANYONE RUNNING CHARGE POINTS

Charge Point Operators

Public and semi-public charging networks at any scale.

Fleet & Depot Operators

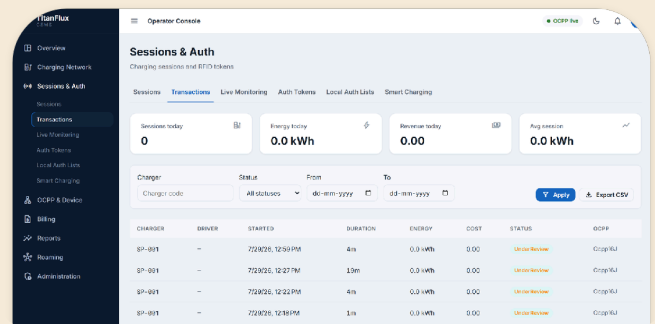
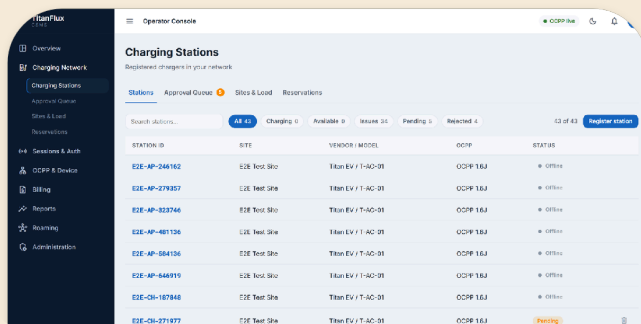
Depot charging for own vehicles, with usage and cost visibility.

Business & Workplace

Malls, offices and hotels offering charging to customers or staff.

Property & Site Owners

Charging deployed and operated as a revenue-earning service.



07 Technical specifications

STANDARDS-BASED BY DESIGN

PROTOCOLS

Charger protocol	OCPP 1.6J and 2.0.1 (JSON over WebSocket)
Roaming protocol	OCPI
Charger compatibility	Any OCPP-compliant charger, multi-vendor
Standards alignment	IEC 61851 / IS 17017

CLIENTS

Operator console	Browser-based, light and dark themes
Driver app	Native Android and iOS
Connectivity	WiFi, 4G/cellular (SIM), Ethernet with failover

PLATFORM

Architecture	Cloud-based, multi-tenant
Access control	Role-based, fine-grained permissions
Real-time	Live push for status, sessions and alerts
Energy metering	Metrology-grade as billing source of truth

SECURITY & RESILIENCE

Transport	TLS / mutual-TLS
Certificates	Certificate and PKI management
Firmware	Signed OTA campaigns
Offline operation	Sessions continue and reconcile on reconnect

08 Choosing what you need

START WITH THE SITE, THEN ADD THE PLATFORM

HOMES · SMALL SITES

Bharat AC-001

Single-phase 3.3 kW on a standard domestic supply, with metering already inside.

- Villas and apartments
- Small shops and offices
- Two- and three-wheeler charging
- Society parking with app auth

WORKPLACE · COMMERCIAL · PUBLIC

Type 2 Smart AC

3.3 to 22 kW in one enclosure, with RFID, ground fault detection and surge protection standard.

- Offices and workplaces
- Malls, hotels and restaurants
- Fleet and depot parking
- Public and semi-public sites

ANY NETWORK, ANY BRAND

TitanFlux CSMS

Add the platform when charge points need to be monitored, billed or shared across operators.

- More than a handful of points
- Paid or tariffed charging
- Uptime and fault reporting
- Roaming and multi-tenant estates

**STANDARDS
&
COMPLIANCE**

OCPP 1.6J & 2.0.1 · OCPI · Class 1 metering · IP 55 · IEC 61851 / IS 17017 aligned

09 Talk to us

PILOTS, TENDERS AND SITE SURVEYS

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