TITAN EV

Smart charging starts here.

A ready-to-integrate charge controller for EV charger manufacturers and Charge Point Operators — IEC 61851-1 compliant, OCPP 2.0.1 with 1.6J compatibility, and built-in metering for accurate session billing.

OEM-ready board

Drops into your enclosure — single or 3-phase from the same controller

Built-in metering

Persistent accuracy for session billing, with no external meter

OCPP 2.0.1 + 1.6J

Mandatory under EU AFIR, backward compatible with 1.6J backends

01 Why Tech OVN inside your charger

FOR OEMS AND CHARGE POINT OPERATORS

Charger builders are good at enclosures, cable management and brand. Metering accuracy and charging safety are a different discipline — and the part that regulators, billing systems and drivers ultimately judge.

Titan EV brings the metering expertise behind every Titan meter onto a controller board you can drop into your own product: one board for single and three phase, your brand on the outside.

The result is a charger that bills accurately, speaks the protocol the market now mandates, and needs no external meter or second supplier to certify.

One board, both configurations

Single phase or three phase from the same controller — one part number, one firmware, 7 to 22 kW.

White-label identity

Your vendor name, model and serial are reported in the OCPP BootNotification. The charger is yours end to end.

Session billing you can defend

Class 1.0 integrated metering with per-transaction kWh delivered through OCPP MeterValues.

Safety built in

Full CP/PP state machine (A–F) with contactor welding detection, PE monitoring, overcurrent and thermal derating.

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02 OCPP and connectivity

OCPP 2.0.1

Future-proof protocol support, mandatory under EU AFIR.

1.6J compatibility

Backward compatible with existing 1.6J backends and CPO platforms.

WiFi and Ethernet

Direct to server, no gateway hardware required.

RS485 gateway

Modbus RTU for multi-charger sites behind a single uplink.

03 Technical specifications

TITAN EV · AC MODE 3

CHARGING

Standard	IEC 61851-1 Mode 3 AC
Configuration	Single or 3-phase, same controller
Power range	7 – 22 kW
Protocol	OCPP 2.0.1 + 1.6J
State machine	CP/PP, safety states A–F
Contactor control	Welding detection, PE monitoring, overcurrent, thermal derating

COMMUNICATION

Internet	WiFi & Ethernet
Local	RS485 (Modbus RTU) for multi-charger sites
OCPP	Direct to server, or via RS485 gateway

METERING (BUILT IN)

Accuracy	Class 1.0
Parameters	V, I, P, PF, f, kWh per session and cumulative
Session billing	Per-transaction kWh via OCPP MeterValues

OEM INTERFACE

Modbus registers	Full read/write: status, control, configuration
White-label	Vendor name, model and serial in BootNotification
Compatibility	AC Type 2 charger enclosures
Target customers	Charger OEMs, CPOs, fleet and destination charging

COMPLIANCE

IEC 61851-1 · OCPP 2.0.1 · OCPP 1.6J · EU AFIR ready

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