

Max charging power	2 x 22 kW (3 x 32 A per connector)
Charging outlet type	2 x Type 2 socket with a cable lock
Level of protection	IP 54, IK 10
Electrical protection	DC fault current sensor 6 mA + RCD type A / RCD type B / MCB char. C, 40 A
User identification	PIN code, RFID, Credit card, App*
Contactless payment	Yes, with NFC payment terminal (P66 / Payter Apollo)
Communication	Ethernet, Wi-Fi, 4G LTE
EV communication	IEC 61851
Connectivity	OCPP 1.6 SOAP & JSON, Modbus TCP
Dynamic Load balancing	Yes
Clustering	Up to 36 connectors, expandable**
Energy meter	Yes, MID meter
Smart building integration (BEM)	Yes, Modbus TCP
User interfaces	App* or embedded web interface
Demand response capabilities	Frequency control, Di-Do, 240-12V optional
Dimensions	134.3 x 31.2 x 20 cm
Weight	38 kg (depending on configuration)
Operating temperature, humidity, altitude	-25°C to +65°C, up to 95% relative humidity, 2000m
Material	Stainless steel with anti-corrosion protection
Colour options	Grey, White

*When connected to a charge point management system.

**Depending on characteristics of charging site.



Contactless but completely connected.

INCH Duo is a durable charger, ready for continuous operation in demanding public locations.

Ergonomic design and a large display with straightforward charging instructions combined with ad hoc payment options offer convenience for new users. OCPP compliance allows immediate integration in any charge point management system. Several energy management options native to the INCH platform ensure a stable operation with minimum strain on the local grid. Accepting digital signals through the power lines and frequency monitoring make INCH chargers capable of autonomously responding to grid conditions – managing the charging power and thus impact on the electric grid. Light and sounds enable the user to adopt a preferred method of charger interaction for immediate convenience.

Advanced load management algorithms ensure safe installation on almost any location without costly grid connection point upgrades. Coupled with the Load Guard sensor or connected to the building energy management system, chargers utilise dynamic load management algorithms to adjust charging power to other buildings' consumers and prevent overloads. When connected in a cluster with limited available charging power, the power is distributed intelligently among all chargers, based on EV characteristics and priorities.

Extended clustering capabilities with mixed clusters

"Mix & Match" cluster option allows a combination of different INCH chargers in a single cluster for autonomous operation or a cluster installation with non-Etrac chargers for cost-efficient payment clusters. Extended clustering capabilities give operators planning flexibility on complex locations or with various use cases.

Contactless payment module

A contactless payment module allows faster ad-hoc use without registration, thus enhancing user convenience. In a cluster of chargers, the master station can serve as a payment terminal for the whole group, further reducing operational costs of charging infrastructure.

Easy installation & maintenance

INCH's powerful web interface is readily available with every individual charger and allows safe and convenient management of small charging clusters as well as setting up local advertising.

More dimensions to experience

A large LCD touch screen provides ample space for user communication. The user interface is designed to inform through the use of colour, signage and sound, making it easier and more intuitive to navigate for new and regular users alike.

Advertising and branding

Large flat surfaces of charger housing offer ample space for branding and visibility, while an on-screen advertising option allows direct communication with the user.

