

I-FAST



JOINON's solution for fast charging

I-FAST is the range of **direct current (DC) charging stations from 30 kW up to 480 kW**, designed to reduce charging times and optimize dwell times. Thanks to their high reliability, robustness and refined design, I-FAST stations are ideal for both urban and extra-urban environments, making them suitable for charging all types of electric vehicles in high-turnover parking areas, highways, main roads and service areas.

DC charging stations



Wallbox - Movable

Wallbox and **Movable** offer a smart solution for electric mobility, combining fast charging **up to 30 kW** with an ultra-compact design. Wall or floor installation, also in a mobile configuration.



Compact - Station

The **60 kW Compact** station is designed for fast and cost-effective charging in a compact casing. The **Station** versions are modular and scalable units, available in four power ratings: **90, 120, 150 and 180 kW**. Suitable for floor installation.



HPC Compact - HPC Station

HPC units are ultra-high-power charging solutions, available in the **240 kW HPC Compact** version and in the modular, scalable **HPC Station** versions, offered in three power ratings: **320, 400 and 480 kW**. Suitable for floor installation.



Accessories

- AC-DC additional power conversion modules (30 kW for Station and 40 kW for HPC Station).
- Charging cables management supports.
- Floor installation supports.
- Concrete floors fixing plates.

Wallbox



Movable



	Wallbox	Movable
Power specifications		
AC Input		
Input voltage	3φ 380 ÷ 415 Vac (±15 %)	3φ 380 ÷ 415 Vac (±15 %)
AC input connection	3P+N+PE (Wye configuration), TN/TT	3P+N+PE (Wye configuration), TN/TT
Max. input current	3φ 47 A	3φ 47 A
Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Power factor	> 0.99	> 0.99
Efficiency	> 94 % (to optimize point V/I)	> 94 % (to optimize point V/I)
DC Output		
Output voltage range	CCS2: 150 ÷ 950 Vdc (optional CHAdeMO: 150 ÷ 500 Vdc)	CCS2: 150 ÷ 950 Vdc
Max. output current	CCS2: 80 A (optional CHAdeMO: 60 A @500 Vdc)	CCS2: 80 A
Max. output power	30 kW	30 kW
Voltage/Current accuracy	±2 %	±2 %
Mechanical specifications		
Dimensions (LxHxD)	610 x 690 x 230 mm	589 x 1,020 x 620 mm
Weight	≤ 80 kg ±1% / 2 connectors: ≤ 88 kg ±1%	≤ 80 kg ±1%
Cable length	4.5 m	4.5 m
Protections		
Input protections	OVP, OPP, OTP, UVP, SPD	OVP, OCP, OPP, OTP, UVP, RCD, SPD
Output protections	SCP, OCP, OVP, LVP, OTP, IMD	SCP, OCP, OVP, LVP, OTP, IMD
Regulation		
Safety	CE, CB	CE, CB
Certificates	IEC 61851-1, IEC 61851-23, IEC 61851-21-2	IEC 61851-1, IEC 61851-23, IEC 61851-21-2
Charging interfaces	DIN 70121, ISO 15118-2, CHAdeMO Ver 1.2	DIN 70121, ISO 15118-2

Compact



Station



	Compact	Station
Power specifications		
AC Input		
Input voltage	3φ 380 ÷ 415 Vac (±15 %)	3φ 380 ÷ 415 Vac (±15 %)
AC input connection	3P+N+PE (Wye configuration), TN/TT	3P+N+PE (Wye configuration), TN/TT
Max. input current	3φ 115 A	3φ 173 ÷ 345 A
Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Power factor	> 0.99	> 0.99
Efficiency	> 94 % (to optimize point V/I)	> 94 % (to optimize point V/I)
DC Output		
Output voltage range	CCS2: 150 ÷ 950 Vdc (optional CHAdeMO: 150 ÷ 500 Vdc or GBT: 150 ÷ 750 Vdc)	CCS2: 150 ÷ 950 Vdc (optional CHAdeMO: 150 ÷ 500 Vdc or GBT: 150 ÷ 750 Vdc)
Max. output current	CCS2: 150 A (optional CHAdeMO: 120 A or GBT: 120 A)	CCS2: 250 A (optional CCS2: 300 A or CHAdeMO: 120 A or GBT: 120 A)
Max. output power	60 kW	90 ÷ 180 kW
Voltage/Current accuracy	±2 %	±2 %
Mechanical specifications		
Dimensions (LxHxD)	700 x 1,800 x 330 mm	800 x 1,900 x 650 mm
Weight	≤ 235 kg ±1 %	≤ 390 ÷ 500 kg ±1 %
Cable length	4.5 m (optional 7 m)	4.5 m (optional 7 m or 9.5 m)
Protections		
Input protections	OVP, OCP, OPP, OTP, UVP, RCD, SPD	OVP, OCP, OPP, OTP, UVP, RCD, SPD
Output protections	SCP, OCP, OVP, LVP, OTP, IMD	SCP, OCP, OVP, LVP, OTP, IMD
Regulation		
Safety	CE, CB	CE, CB
Certificates	IEC 61851-1, IEC 61851-23, IEC 61851-21-2	IEC 61851-1, IEC 61851-23, IEC 61851-21-2
Charging interfaces	DIN 70121, ISO 15118-2, CHAdeMO Ver 1.2	DIN 70121, ISO 15118-2, CHAdeMO Ver 1.2

HPC Compact



HPC Station



	HPC Compact	HPC Station
Power specifications		
AC Input		
Input voltage	3φ 380 ÷ 415 Vac (±15 %)	3φ 380 ÷ 415 Vac (±15 %)
AC input connection	3P+N+PE (Wye configuration), TN/TT	3P+N+PE (Wye configuration), TN/TT
Max. input current	3φ 460 A	3φ 587 ÷ 880 A
Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Power factor	> 0.99	> 0.99
Efficiency	> 95 % (to optimize point V/I)	> 95 % (to optimize point V/I)
DC Output		
Output voltage range	CCS2: 150 ÷ 950 Vdc (optional CHAdeMO: 150 ÷ 500 Vdc or GBT: 150 ÷ 750 Vdc)	CCS2: 150 ÷ 950 Vdc (optional CHAdeMO: 150 ÷ 500 Vdc or GBT: 150 ÷ 750 Vdc)
Max. output current	CCS2: 300 A (optional CCS2: 500 A or CHAdeMO: 200 A or GBT: 250 A)	CCS2: 300 A (optional CCS2: 500 A or CHAdeMO: 200 A or GBT: 250 A)
Max. output power	240 kW	320 ÷ 480 kW
Voltage/Current accuracy	±2 %	±2 %
Mechanical specifications		
Dimensions (LxHxD)	1,053 x 664 x 2,037 mm	1,036 x 800 x 2,100 mm
Weight	765 kg ±1 %	≤ 660 ÷ 985 kg ±1 %
Cable length	4.5 m (optional 7 m)	4.5 m (optional 7 m)
Protections		
Input protections	OVP, OCP, OPP, OTP, UVP, RCD, SPD	OVP, OCP, OPP, OTP, UVP, RCD, SPD
Output protections	SCP, OCP, OVP, LVP, OTP, IMD	SCP, OCP, OVP, LVP, OTP, IMD
Regulation		
Safety	CE, CB	CE, CB
Certificates	IEC 61851-1, IEC 61851-23, IEC 61851-21-2	IEC 61851-1, IEC 61851-23, IEC 61851-21-2
Charging interfaces	DIN 70121, ISO 15118-2, CHAdeMO V1.2	DIN 70121, ISO 15118-2

For all I-FAST units

User interface and control

Display	The 7" LCD display is standard across the entire I-FAST range, with the exception of the 240 kW HPC Compact version, which directly integrates a 21" LCD display. For the HPC Station version, the 7" LCD display remains standard, with an optional 21" LCD display available
Controls	Operation buttons / Emergency stop button
User authentication	RFID: Support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966), OCPP 1.6 JSON and OCPP 2.0.1, QR Code, App, Payment system (optional)
Energy meter	DC PTB Meter (optional)

Communication

External	Ethernet, Wi-Fi and 4G
Internal	CAN bus / RS485

Local directives

UK	Compliant with PAS1899:2022, subclause 5.2, Table 2, "Height range requirements" (refer to manual for more details). Compliant to Public CP Regulation 2023 regarding manufacturer requirements
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Environmental specifications

Operating temperature	-30 °C ÷ 50 °C (downgrading starting from 50 °C)
Humidity	5 % ÷ 95 % RH, non-condensing
Max. altitude of installation	≤ 2,000 m
IP degree	IP55
Mechanical resistance	IK10 (not including display, RFID module and any POS terminal)
Cooling method	Forced air cooling (optional for HPC Compact and HPC Station: liquid cooling)

Features and benefits



Ultra-fast charging: up to 480 kW, with a modular and scalable architecture that allows power to be adapted over time according to infrastructure needs. I-FAST units also enable dynamic power distribution for each charging session, thanks to the Load Sharing function, based on the vehicle's state of charge.



Charging connectors:

- 1 x CCS2.
- 2 x CCS2 - 150 A (Compact version).
- 2 x CCS2 - 250 A or 300 A with max. peak 500 A (Station version).
- Flexible configurations with up to 4 connectors for HPC Station versions. Solutions with liquid-cooled cables are also available for high-power applications, including HPC Compact versions.
- CHAdeMO and GBT available as optional configurations.



Interface: 7" TFT-LCD display for standard versions, featuring a simple and intuitive interface with LED strips indicating operating status (Green = available, Blue = in use, Red = fault).

For high-power versions, a 21" display is available (standard on the 240 kW version and optional on the 320-480 kW versions) enabling advanced user experience management and content display.



Accessories: cable management system and supports for installation on concrete base (for Station and Compact versions), pedestal for Wallbox versions.

For high-power versions, additional power modules, advanced cable management systems and dedicated mounting plates are also available, ensuring greater flexibility in configuration and installation.



Smart features:

- Configuration via onboard portal and charging start via App or RFID card, with optional POS + RFID authorization available for high-power models.
- Versions with DC PTB energy meter and integrated payment system (excluding Wallbox and Movable).
- Charging connectors with peak output current up to 500 A for 150 to 180 kW Station and HPC versions.
- OCPP 1.6J and OCPP 2.0.1 compatibility across the entire range.
- OTA upgrade.



Connectivity: all I-FAST charging stations can be connected via Wi-Fi, Ethernet and 4G, with optional Dual 4G configuration available for high-power versions to ensure greater reliability and connection continuity.



Compliance with calibration regulations: all DC charging stations of the I-FAST range are also available in a calibration-compliant version.



Plug&Charge ready: I-FAST charging stations are also available with the Plug&Charge function (ISO15118).

