

The JUICE ULTRA 2 battery consists of a DC fast charging station with integrated energy storage system (ESS) equipped with Lithium iron phosphate batteries (cobalt free). With its energy management system (EMS), which can be controlled locally or via remote access, the ESS enables the provision of an optimised energy supply based on the grid, battery and electric vehicles. The intelligent JUICE ULTRA 2 battery helps to prevent power peaks on the grid while also compensating for low or unavailable grid capacity. In the field, the JUICE ULTRA 2 battery impresses with its user-friendliness and high charging capacity, as well as its cost-optimised operation. In addition, the modular design ensures utmost flexibility and high stability.

A battery capacity of max.466kWh enables rapid, simultaneous charging with up to 210kW distributed at 2 charging points.

Special features

Compact, space-saving design

The unique design ensures minimal space requirements and easy positioning in the parking area, with noise development also kept to a minimum.

High charging capacity with low grid output

With a maximum charging capacity of $150 \, \text{kW} + 60 \, \text{kW} = 210 \, \text{kW}$, the JUICE ULTRA 2 battery offers a significantly higher power output than most other fast charging stations with integrated storage when supplied with limited input power. The output capacity can be intelligently distributed across the two charging connections based on the actual requirements of the charged vehicles.

Maximum ease of use

A 19" touchscreen and integrated LED indicators for the charging and battery status improve the charging experience and boost efficiency.

Flexible use and expandability

The modular expandability of the battery capacity up to $2 \times 233 \, \text{kWh}$, intelligent load distribution across the two charging points and optimum energy utilisation ensure utmost flexibility in a wide range of applications.

Application example



JUICE ULTRA 2 battery

Technical specifications				
Technical parameters	Product specifications	Туре	DC fast charging station	
		Dimensions	W 2.3 m, D 0.8 m, H 2.25 m (for 466 kWh: W 3,85 m)	
		Installation	Floor installation	
		Material	High-strength steel alloy	
		Colour	White, weather-resistant coating	
		Weight	3000 kg (for 466 kWh: 5900 kg)	
	Energy storage system	Battery capacity	233 kWh / 2×233 kWh	
		Usable battery capacity	CEE32: 22kW / CEE63: 44kW / CEE125: 60kW	
		Max. charging capacity into the battery	30 kW / 60 kW	
		Battery charge coefficient	≤0.5C	
		Battery discharge coefficient	≤1C	
		Battery efficiency	≥ 94.5% at rated capacity	
		IP protection rating	IP65	
	Fast charging station	Charging points	2	
		Power distribution	Intelligent load distribution across 2 charging points	
		Charging capacity	DC max. 150 kW + 22 kW/44 kW/60 kW ≅ 170 kW/190 kW/210 kW	
		Cable	CCS2, 5 m, 200A (250A optional)	
		Output voltage	300V ~ 1000V	
		Efficiency	≥96.5%	
	Power meters	AC side	1 AC meter	
		DC side	2 DC meters (with window for external readings)	
	Cooling system	Battery	Liquid-cooled	
		Power modules	Air-cooled	
		Cable	Air-cooled	
	Screen	Display size	19"	
	Payment system	RFID, credit card terminal		
	Network connections	GSM, LTE, LAN, WLAN		
	Communication	OCPP 1.6 J		
Environmental conditions	Usage location	Outdoors		
Environmental Conditions	Temperature range	-25°C to 55°C (power reduction over 45°C)		
	Air humidity	≤95% non-condensing		
	max. operating altitude	≤ 2000 above sea level		
	Noise development	≤ 75 dB at rated capacity		
	EMC	Class B		
	Medium	No explosive, hazardous, toxic or harmful gases		
	Noise interference	No strong vibrations or electromagnetic disturbances		
Input and output	Input voltage range	3-phase 400 VAC ± 15%		
	Residual current device	250 A, 4 p, Type A		
	Input frequency	50Hz ±1Hz		
	Output frequency range (reduced)	150VDC to 300VDC		
	Output frequency range (constant)	300VDC to 1000VDC		
	Charging capacity	150kW/170kW/190kW/210kW		
	Charging current	200 A / 250 A CCS2 continuous		
	ID protection class	ID54		
Safety	IP protection class	IP54		
	Safety/protection functions	Undervoltage/overvoltage protection, over tion, overheating protection, fire protection	rload protection, short-circuit protection, earthing protection, lightning protec- n device, flood protection sensor	
Standards	Battery		IEC 62619	
	System	IEC 62619, IEC61851, IEC62477, ISO15118		