



Less than 15
minute recharge

Multi-car
simultaneous
charging

50 kW power
needed from grid

General Overview

The Ultra Fast Charger is a Power Supply Unit with high charging capacity that can be connected to LV or MV grid network.

The charger is equipped with an integrated energy storage system, allowing flat and scheduled power to be sourced from the grid.

With an energy requirement of 50 kW, it is able to rapidly supply 320 kW to 350 kW of power output to any Electric Vehicle.

The system is designed to be powered by either the grid or renewable energy sources like PV (50-320 kW).

- Very short charging time:
15 minutes enable 500 km autonomy
- Efficiency > 95%
- Low noise
- Easy access for high maintainability
- Ambient temperature: -20 °C / +45 °C

Smart Charging

The Ultra Fast Charger changes its configuration automatically, depending on the cars connected. The advanced control system automatically adapts the charging parameters, such as the charging current.

Equipped with two charging strings, the UFC allows:

- The simultaneous charging of two vehicles equipped with 200-500 V battery at full power (500 V max, 400A max, up to 160 kW each)
- The charging of one vehicle equipped with 400-950 V battery at full power (950 V max, 400 A max, up to 320 kW).

Technical Data

GRID	
Grid type	3 -Phase
Grid frequency	50/60 Hz
Grid input power	50kW
Grid input voltage	From 200V to 480 V
INTERNAL BATTERY SYSTEM	
Cell chemistry	Lithium ion
Battery capacity	158 kWh
Cooling type	Air
Recharge time	3h at 50kW grid power
UFC FEATURES	
Vehicle charging capacity	1x320kW or 2x160kW
Efficiency	95% at full load
Output DC voltage	From 200V to 950V
Noise emissions	Low-noise suitable for installation in residential areas
Output DC current	Max 400A
UFC Cooling	Integrated chiller
Weight	It is possible to cool the charging cable by water
Dimension	1.8 tons
Installation option	1.2x1.2x 1.6 m
	150m max from charging column
OPERATING TEMPERATURE	
Temperature range	-20°C +45°C
ENVIRONMENT	
Installation	IP54 outdoor use
STANDARD & SAFETY	
Safety	Functional safety acc. to IEC61508
Certification	Depending on region e.g., UL, CE, CCC
EMC	EN 61000-6-3
COMMUNICATION INTERFACES	
Back-end connection	Mobile GSM communication
Charging column connection	TCP/IP
Protocol	OCPP or customer specific

The charging column can be personalized per customer request. For more information, contact us.

