SUNAFFAIRS

EXC DRIVE

Charge 400 kW. Anywhere. Anytime.

EXC DRIVE enables cost-effective, high-power charging of electric cars and e-trucks—without the need to invest in a new substation.

400 kW hypercharger
for charging e-trucks, electric cars, and e-buses

PV, grid & spot market
flexible energy storage and utilization

Easy connection & quick start-up
400 V / 63 A quick installation

Modular & standalone
capacity up to >3 MWh, off-grid operation available

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Flexible energy storage system

for fast charging

Typical requirements of our customers

Purchase electricity at competitive **spot prices**, store it, and use it **as needed**.
Operate electric trucks **cost-effectively** and use your **own electricity** from solar panels.
Charge **without** needing your own **substation.**

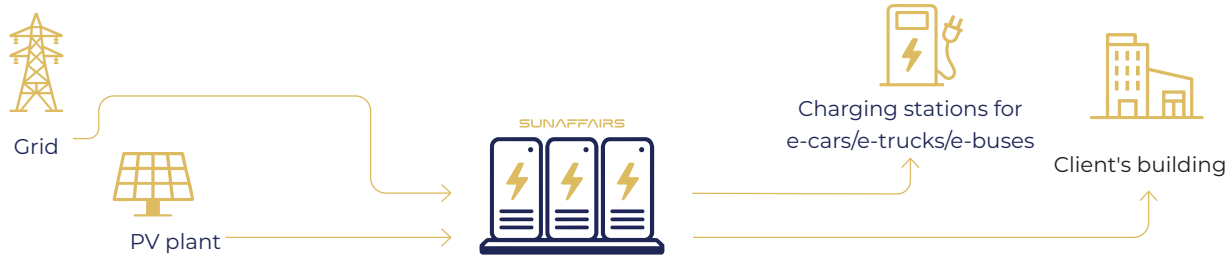
EXC Drive - How it works

The EXC Drive system **stores energy** from the grid (400 V / 63 A) as well as from your photovoltaic system.

The integrated EMS system controls the equipment automatically based on your settings.

The stored energy can then be used at a power output of up to **400 kW** to charge e-trucks or electric vehicles, or to meet the energy needs of your buildings and machines.

Modular and scalable



01
Energy source
The energy is sourced either from the **grid** or from a **PV system**

02
Storage
The energy is stored in the **EXC 241 battery storage system**

03
Distribution
Energy is distributed in two ways:
1) charging station > car/e-truck
2) customer's building

The EXC Drive stores up to **1,446 kWh** of electrical energy on a single integrated metal frame.

Other benefits

Installation
no concrete foundation is required

Offline mode available
charging without being plugged in

Delivery
by a special truck

Installation
within a few hours

LiFePO₄ technology
for high safety

Depending on energy requirements, multiple EXC Drive units can be combined to expand capacity as needed.

Technical Specifications

Model	EXC Drive 482	EXC Drive 723	EXC Drive 964	EXC Drive 1446
Charger	Alpitronic HYC 200	Alpitronic HYC 400		
Charging power	200 kW DC	up to 400 kW DC		
Charging connector	1 - 2	1 - 4 (liquid-cooled)		
Connecting the charger / Backend / Payment	OCPP 1.6J / OCPP 2.0.1 / RFID / credit card terminal			
Battery storage	2x EXC 241	3x EXC 241	4x EXC 241	6x EXC 241
Battery capacity	482 kWh	723 kWh	964 kWh	1446 kWh
Battery technology	$LiFePO_4$ – 0,5C-rate, 80% remaining capacity after 5,000 cycles			
Energy Management System	sunaffairs EMS			
Grid connection	CEE socket 32A/63A or custom	CEE socket 63A/125A or custom		
Connecting a PV system	Yes – direct communication with your PV system and signals from the grid			
Dimensions	4,3x1,6x2,5 m	5,3x1,6x2,5 m	6,3x1,6x2,5 m	8,3x1,6x2,5 m
Weight	approx. 6 t	approx. 9,5 t	approx. 12 t	approx. 17 t
Operating temperature	from -25 °C to +50 °C			
Installation	Ready to use in just a few hours			
Transport / Delivery	Specialized truck (no crane required)			
Location requirements	A level, paved surface (asphalt or compacted gravel base, designed to support the required load)			
Energy trading on the spot market	Yes			
Peak Shaving	Yes			
Control / Monitoring of PV Systems	Yes			
Energy Regulation (AS)	Yes			
Backup / UPS Function	Yes			

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