

# DOMUS 5.1 energy storage system

...provides power and security for your home and supports your business!

All in one solution! High voltage and low voltage in one housing



Modularity scalable



Full Shield technology



Long-life  
LiFePO4  
Battery

- Parallel connection for capacity expansion up to 40 kWh
- Support for mixing old and new batteries
- Prismatic LFP cells with long service life and ultra-high safety
- Prepared for 48V low voltage
- High voltage up to 450V DC
- IEC62133-, UL- and UN38.3-Certification for cells
- UN38.3 and CE certifications for the system
- Cell certification: IEC62619, UL1973, UL9540A

## HIGHLIGHTS

- **Design** - aluminium material and elegant design
- Flexible and simple installation
- Temperature, voltage and current control
- **Intelligent management** - separate protection for charging and discharging processes
- SOC and SOH prediction and protection against abnormal events
- **Simplicity** - Clear status LEDs and a single push button for intuitive operation
- **Maintenance-free**

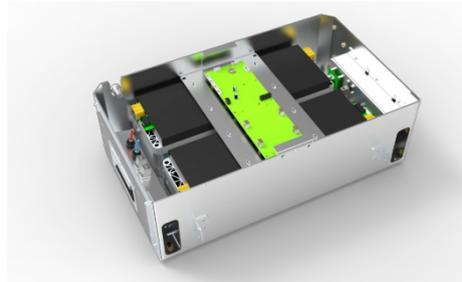


High-voltage connection

## PLUG&PLAY CONNECTIONS



48V connection



# DOMUS 5.1 - Technical data

## DOMUS 5.1

Item number: DS05111AB

<b>General</b>	Dimensions (W*H*D)	620 x 210 x 370 mm	
	Weight	44 kg	
	Battery technology	LiFePO4 (LFP)	
	Battery cells	Prismatic 3.2 V 104 Ah	
	Modular expandability	2 - 8 modules (10 - 40.0 kWh)	
	Modular wiring	Series connection, high-voltage system up to 450V	
	Optional area of application	48V low voltage system	
	Communication connections	2 x RJ45 (RS485)	
	DC connector plug	PhoenixContact Sunclix, reverse polarity protected	
	Battery fuse	Integrated	
	Housing	steel	
	Software	ETerm customer monitor	
	certificate	UN 38.3	
	Conformity	CE (EMC, NSR, RoHS), FNN	
Guarantee	5 years (*1)		
Performance guarantee	10 years min. 80% capacity (*1)		
<b>Electrical data</b>	Battery capacity	100 Ah	
	Energy consumption	5.1 kWh	
	Usable energy (100% DoD)	5.0 kWh	
	Charge cycles at 100% DoD	≥ 8000	
	Internal resistance	≤ 100 mΩ	
	Nominal voltage	51.2 V	
	Operative voltage range	48 - 56 V	
	Max. Charging current	25 A (0.25C)	100A (1C) [48V]
	Max. Charging current (OFF-GRID)	25 A (0.25C)	
	Max. Discharge current	25 A (0.25C)	100A (1C) [48V]
	Max. Discharge current (OFF-GRID)	25 A (0.25C)	
	Power consumption operation	< 1 W	
	Power consumption standby	< 50 mW	
	Battery efficiency	>95%	
DC overvoltage category (IEC 60664-1)	II		
Max. PV system voltage	900V DC		
<b>Ambient conditions</b>	Operating temperature range	min. +5°C, max. +40°C	
	Recommended operating temp.	min. +20°C, max. +25°C	
	Storage temperature (< 1 year)	min. -20°C, max. +30°C	
	Transport temperature (< 1 month)	min. -20°C, max. +45°C	
	Operating humidity	20% - 90%	
	Storage humidity	< 70%	
Protection class (IEC 60529)	IP21		
<b>Battery management system</b>	Balance type	Passive	
	Type of monitoring	Monitoring of all system parameters (*2)	
	Charging and discharging process	Intelligent algorithm	
	Calculation of SoC and SoH	Intelligent algorithm	
<b>Supported devices</b>	Hybrid inverters	CENTURIO, KACO blueplanet hybrid 10TL3	

\*1: The relevant warranty conditions apply.

\*2: Permanent monitoring of current, system voltage, cell voltage, cell temperature, PCBA temperature and system shutdown if parameter limits are exceeded.

Errors and omissions excepted. Technical data is subject to change without prior notice.

