

## FullSet Pro energy storage system data sheet

FullSet Pro is the only industrial, low-voltage energy storage system for residential applications.

We have used the best quality lithium-ion cells and top-class components to guarantee the safety and performance of your devices.

Energy is available whenever you need it: in the evening, at night, on a cloudy day or in the event of a grid failure. You can store the energy produced both from the photovoltaic installation and from the grid.



FullSet Pro 14.10

FullSet is a complete system:  
energy storage + hybrid inverter

### Why should you choose FullSet?



#### Lifetime

≥3000 cycles of charge and discharge.



#### Warranty

10 year warranty for entire system.



#### BMS

Battery management system that controls the efficiency of the device.



#### Safety

The products meet European safety standards and are certified.



#### Expansion

Possibility to expand the system with additional energy storages or inverters



#### Off grid

Energy storage from PV installations or from the grid.

Low-voltage  
energy storage system

## FullSet Pro 14.10

14 kWh / 10 kW



Technical specifications of  
14 kWh energy storage

Nominal energy	14,3 kWh
Dimensions (height x width x depth)	1027 mm x 239 mm x 400 mm
Estimated weight	~120 kg
Output voltage range	40 VDC ÷ 60 VDC
Maximum discharge current @ 25°C	200 A
Maximum charge current @ 25°C	200 A
Certifications	UN38.3; CE
Operating temperature range	0°C ... +55°C
Recommended temperature	25°C
Communication interface	CAN Bus
IP class	54IP
High-current connection between battery blocks	Wire connection
Cycle life (at 90% DoD, 0.5C / 0.5C @ 25°C ± 3°C)	≥3000
Battery chemistry	Li-ion NMC
Installation	In a closed facility
Warranty	10 years

The control system of the energy storage system does not need an external power supply.



## Technical specifications of 10 kW hybrid inverter

### Battery Input Data

Battery Type	Lead-acid or Li-Ion
Battery Voltage Range	40 V~60 V
Max. Charging Current	210 A
Max. Discharging Current	210 A
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS

### PV String Input Data

Max. DC Input Power	13 000 W
Rated PV Input Voltage	550 V (160 V~800 V)
Start-up Voltage	160 V
MPPT Voltage Range	200 V-650 V
Full Load DC Voltage Range	350 V-650 V
PV Input Current	26 A+13 A
Max. PV ISC	34 A+17 A
Number of MPPT / Strings per MPPT	2/2+1

### AC Output Data

Rated AC Output and UPS Power	10 000 W
Max. AC Output Power	11 000 W
AC Output Rated Current	15,2 A
Max. AC Current	22,7 A
Max. Continuous AC Passthrough	45 A
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60 Hz; 3L/N/PE 220/380, 230/400 Vac
Grid Type	Three Phase
DC injection current (mA)	THD<3% (Linear load<1.5%)

### Efficiency

Max. Efficiency	97,6%
Euro Efficiency	97,0%
MPPT Efficiency	99,9%

## Technical specifications of 10 kW hybrid inverter

### Protection

Integrated

PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Surge protection

### Certifications and Standards

Grid Regulation

CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98,  
VDE 0126-1-1, RD 1699, C10-11

Safety EMC / Standard

IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

### General data

Operating temperature range

-45°C~60°C, >45°C derating

Cooling

smart cooling

Noise

<45 dB

Communication with BMS

RS485; CAN

Weight

33,6 kg

Size (W x H x D)

422,0 mm x 699,3 mm x 279,0 mm

Protection Degree

IP65