

Commercial & Industrial sonnenPro Compact 261



Technical specifications

Battery

Nominal battery capacity	261 kWh
Usable battery capacity	245 kWh
Cell technology	Lithium iron phosphate (LFP)
Overall battery efficiency	93.75 %
Cooling method	Liquid cooling (refrigerant R 513A)

AC output (Grid Operation)

Inverter rated power (charging/discharging)	125 kW
Max. current per phase	200 A
Grid connection	Three-phase (3L+N) 400 V 50 Hz
Weight	2,400 kg
Product dimensions (W×H×D)	980×2,435×1,300 mm
Max. inverter efficiency	98.5 %

Environmental Conditions

Ambient temperature	-30 °C to +55 °C (power derating possible above 45 °C)
Humidity	5 %-95 % (non-condensing)
Installation altitude (above sea level)	< 2,000 m
IP rating	Battery modules: IP67 / System enclosure: IP55
Enclosure coating	Corrosion protection C3 (C5 optional)
Max. noise emission	< 75 dB(A)

General

Communication	Modbus TCP, Ethernet
Directives Regulations	EMC 2014/30/EU, LVD 2014/35/EU, RoHS 2011/65/EU, RED 2014/53/EU, BattVO 2023/1542/EU
Standards Safety	IEC 63056, IEC 62619, IEC 62477-1, IEC 62109-1, IEC 62109-2, UN 38.3, ANSI/CAN/UL 9540A (Module Level), VDE-AR-E 2510-50
Standards Grid Codes	EN 50549-1, EN 50549-2, VDE-AR-N 4105, VDE-AR-N 4110, CEI 0-21, CEI 0-16, UNE 27001, UNE 217002, NTS 63, C10/11 (Type B)
Warranty ¹	Battery performance warranty: 8,000 cycles at 60 % SoH (State of Health). Product warranty for complete system (excluding inverter): 10 years; inverter: 5 years

sonnenPro Backup (optional)

Rated power (critical load)	125 kW ²
Rated power (grid side)	250 kW
Rated current (grid side)	361 A
Grid type in backup operation	TN-S
Switchover time	≤ 20 ms
Weight	240 kg
Product dimensions (W×H×D)	278×1,798×1,030 mm

¹Please refer to the currently applicable warranty terms.

²At a power factor of $\cos \phi = 1$

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Highlights

- + **Complete system with integrated inverter**
Plug-and-play for fast and easy installation
- + **Fast backup switchover**
Grid/backup switchover time ≤ 20 ms with sonnenPro Backup (optional)
- + **Maximum safety**
proven LFP cell technology, multiple sensors, aerosol fire suppression system, and overpressure valve
- + **Scalable up to the multi-MWh range**
up to 10 units in ongrid operation or 2 units in backup mode
- + **Outdoor-ready**
battery modules rated IP67, battery enclosure rated IP55 – no additional protection or shelter required
- + **Minimal footprint**
the footprint of a single enclosure is less than 1.5 m²
- + **High-performance cooling**
liquid cooling for maximum efficiency



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Use cases

Self-Consumption optimisation

Optimised energy usage

- + High renewable generation during low consumption = battery stores electricity
- + Insufficient generation during periods of increased energy demand = battery supplies energy

Peak shaving and atypical grid usage

Capping or shifting short-term peak loads

- + High power is supplied by the battery rather than expensive grid electricity
- + Peak loads during high-demand periods can be avoided

Use of time-variable tariffs

Cost-optimised electricity procurement

- + Optimal balancing of dynamic or time-of-use tariffs
- + Low electricity prices = battery stores energy from the grid
- + High electricity prices = battery supplies stored

Electric vehicle charging support

More power, hassle-free, when you need it

- + Optimised EV charging, thanks to battery storage
- + Reach your goal faster – storage instead of grid expansion
- + Savings on additional grid infrastructure costs by drawing power from the battery

Emergency power supply (backup power)

Continued operation during short-term grid outages

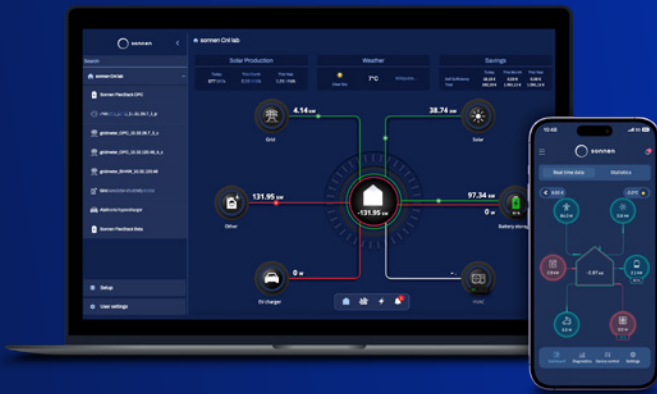
- + Optional sonnenPro Backup
- + Enables seamless switching between grid and backup operation within milliseconds
- + High reliability and excellent power quality

The services described are provided exclusively on the basis of our currently valid General Terms and Conditions (GTC). These GTC form an integral part of every contractual agreement. The economic benefits, savings, or revenue potential mentioned in this presentation are non-binding forecasts. No guarantee of returns is expressly given. Actual results are subject to significant uncertainties due to a variety of influencing factors - in particular market conditions, regulatory frameworks, technical circumstances, and individual usage behavior. Liability for the achievement of specific economic results is excluded to the extent permitted by law.

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Status: May 2026





sonnenPro EMS

Smart energy management for sonnenPro Compact

sonnenPro Compact is operated with our sonnenPro EMS as standard, covering all common use cases in commercial and industrial applications.

Full control and real-time insights

Take control of your energy with sonnenPro EMS.

The **sonnenPro EMS** is an energy management system (EMS) that captures, visualises and controls electrical energy behind the grid connection point. It is available in two packages: Basic and Advanced. While Basic already offers peak load management, backup control and multi-use, Advanced extends these features with predictive optimisation.

Basic

- + **Integration of a wide** of meters, DC and AC chargers, PV inverters and heat pumps
- + **Real-time monitoring and control** of energy flows, plus visualisation and analysis of historical data via web portal and app
- + **PV self-consumption maximisation**
- + **Peak load management and atypical grid usage** by reducing peak loads with energy from the battery
- + **Power control** and curtailment of **EV chargers**
- + **Intelligent backup control** through configurable power reduction of controllable devices during a grid outage
- + **Multi-Use** by combining features with detailed scheduling capabilities

Advanced

- + **Optimisation of energy flows**, taking into account consumption and generation forecasts as well as dynamic grid consumption costs and feed-in tariffs
- + **Configurability of individual pricing components**, consisting of dynamic or time-of-use electricity tariffs as well as variable grid costs and demand charges
- + **Combining** energy flow optimisation with peak load management and self-consumption maximisation