

Independence with the Sonnenbatterie **comfort** : Intelligent lithium storage system to optimize self consumption

✓ **LiFePO₄ battery**

Utilizes Lithium Iron Phosphate battery for longevity and maximum safety in your home.

✓ **7 year warranty¹**

✓ **Three-phase operation**

Your entire house will be supplied with power as usual and self consumption will be increased to a maximum. You can continue to use all household appliances and sockets without any modifications.

✓ **Active energy manager**

Household appliances are switched on automatically via radio control as soon as excess solar power is available.

✓ **Solarbattery App**

You can monitor and control your Sonnenbatterie and your radio control sockets conveniently (e.g. via Smartphone or Tablet), giving you total control over your home's energy!

✓ **Ability to retrofit**

Storage capacity can be expanded on demand.

✓ **Compatible**

With any photovoltaic installation or other form of energy producing equipment; regardless if it is an existing or a new installation.

**20
YEARS**

Durable



Safe



Remote control



Operation of appliances



System monitoring



House monitoring



Datasheet Sonnenbatterie comfort

	Basic	S	M	L	XM	XL	XXL	3XL
Battery capacity	4.5 kWh	8 kWh	10 kWh	20 kWh	10 kWh	20 kWh	40 kWh	60 kWh
Used capacity (70%)	3.2 kWh	5.7 kWh	7.1 kWh	14.3 kWh	7.1 kWh	14.3 kWh	29 kWh	43.3 kWh
LiFePO ₄ battery	✓	✓	✓	✓	✓	✓	✓	✓
Present value warranty ¹	7 years	7 years	7 years	7 years	7 years	7 years	7 years	7 years
Weight	165 kg	215 kg	255 kg	435 kg	400 kg	540 kg	785 kg	1,070 kg
Dimensions W/H/D cm	64/130/50	64/130/50	64/130/50	64/130/50	64/130/50	64/130/50	64/130/50	64/130/50
Number of cabinets	1	1	1	2	2	2	3	4
Total system efficiency ²	ca. 87%	ca. 88%	ca. 88%	ca. 88%	ca. 87%	ca. 88%	ca. 88%	ca. 88%
Quick charge in hours ³	1	2	2	3	1	1,5	2	3
Recommended for an annual electricity consumption of approx.	3,000 kWh	4,000 kWh	5,000 kWh	10,000 kWh	5,000 kWh	10,000 kWh	20,000 kWh	30,000 kWh
Cell layout	70% depth of discharge for long life expectancy and high cycle stability > 5000 cycles							
Efficiency of direct consumption	Transmission of PV electricity for direct consumption without losses (>99%)							
Interconnection rating	32 A (optional 63A or >63A with optional „Business kit“)							
Design concept	Fully integrated (measuring instruments, active energy management, batteries, inverter etc. in the control panel)							
Cascadable ⁴	With optional „Business kit“							

AC INVERTER

Continuous output	2,500 W	3,000 W	3,500 W	5,000 W	3x2,500 W	3x3,500 W	3x5,000 W	3x5,000 W
Peak output (30min at 25°C)	3,000 W	3,500 W	4,000 W	6,000 W	3x3,000 W	3x4,000 W	3x6,000 W	3x6,000 W
Efficiency	94%	96%	96%	96%	94%	96%	96%	96%
Type of feed-in	single-phase	single-phase	single-phase	single-phase	three-phase	three-phase	three-phase	three-phase
Grid parallel operation	Battery power supplements or offsets grid power with no change to delivered power quality							

BACKUP POWER FUNCTIONS

Switching time	< 4 sec							
Number of supported phases in backup power mode	1	1	1	1	3	3	3	3

INSTALLATION REQUIREMENTS

Ambient temperature	5° - 25°C							
Dust and water protection	IP 21							
Installation	Comfortable drawer for easy access including modern spring type terminal and plug&play concept							

CERTIFICATIONS

Connection certification	VDE AR- 4105							
Electromagnetic compatibility (EMC)	SGS TÜV DIN EN 55022, DIN EN 55024, DIN EN 61000							
Battery certifications	TÜV Rheinland EN 62133:2003 UN38.3							
System certifications	Low voltage guideline 2006/95/EG DIN VDE 0100 TÜV SAR CE							

ADDED VALUE

7" Touch-screen	✓	✓	✓	✓	✓	✓	✓	✓
Active energy manager ⁵	✓	✓	✓	✓	✓	✓	✓	✓
Control via smartphone App	✓	✓	✓	✓	✓	✓	✓	✓
Statistical evaluation	✓	✓	✓	✓	✓	✓	✓	✓
Remote maintenance possible	✓	✓	✓	✓	✓	✓	✓	✓
Remote control sockets	3	3	3	3	3	3	3	3
Automatic three phase balancing	✓	✓	✓	✓	✓	✓	✓	✓
PV Monitoring	✓	✓	✓	✓	✓	✓	✓	✓
Eligible for subsidies	✓	✓	✓	✓	✓	✓	✓	✓

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1. For details, please see the general terms and warranty conditions. Hardwired internet must be supplied. | 2. The total system efficiency is based on one charge and discharge cycle at typical loads of a single-family home. Fluctuations possible at different load profiles.

3. Quick charge to 90%. | 4. Accessory „Business kit“ includes external measuring instruments. Backup power functionality not available.

5. Internet and Smartphone/Tablet required.

www.sonnenbatterie.de