



SONNENKRAFT

Solar power storage system

SONNENKRAFT BATTERY

SK Batterie 12 - 29 kWh

Simple installation

Flexible configuration, plug & play installation,
Built-in fuse protection - simple wireless extension.

High-voltage batteries

Lightweight design, lithium iron phosphate (LiFePO4) for extreme safety and maximum charging and discharging efficiency (up to 6000 cycles at 90% depth of discharge).

Plug & Play expandable

The SONNENKRAFT battery is modular (wireless) and can be expanded to up to 7 battery modules. This enables a maximum storage capacity of 29.03 kWh.

IP 65 protection class

Designed to offer maximum flexibility,
Suitable for outdoor use.



**STORING ELECTRICITY
MADE EASY: optimizing
self-consumption and
reducing electricity costs**

SONNENKRAFT BATTERY SK-B

		SK-B-12	SK-B-16	SK-B-20	SK-B-24	SK-B-29
Electrical properties						
Battery type		LiFePO4 prismatic cell				
System structure		1 x SKBM4300 2 x SKBS4300	1 x SKBM4300 3 x SKBS4300	1 x SKBM4300 4 x SKBS4300	1 x SKBM4300 5 x SKBS4300	1 x SKBM4300 6 x SKBS4300
Net capacity	Wh	12.440	16.590	20.740	24.480	29.030
Gross capacity	Wh	12.900	17.200	21.500	25.800	30.100
Nominal voltage range	V	172,8	230,4	288	345,6	403,2
Operating voltage range	V	145,8 - 197,1	194,4 - 262,4	243 - 328,5	291,6 - 394,2	340,2 - 459,9
Recommended charge/discharge current	A	25				
Max. Charging/discharging current	A	50				
Peak discharge current	A	60 A @ 30 sec.				
Charge/discharge efficiency of the battery		> 95 %				
Cycles		≥ 6000 (125 °C, @90 % DOD, 0,5 °C charge/discharge)				
Communication display		CAN				
Scalability		Max. 7 modules in series (1 master + max. 6 slave modules)				

Operating conditions

Installation location		Outdoor space/ indoor space (standing)				
Operating temperature	°C	- 10 to 55				
Storage temperature	°C	- 20 to 55				
Cooling		Natural convection				
Humidity		0 % to 100 % (non-condensing)				
Operation altitude		max. 2000 m above sea level				

Mechanical properties

System dimensions (W x H x D)	mm	570 x 448 x 380	570 x 567 x 380	570 x 686 x 380	570 x 805 x 380	570 x 924 x 380
Master height	mm	170	170	170	170	170
Height slave	mm	119	119	119	119	119
Height of feet	mm	40	40	40	40	40
Net weight	kg	112,5	148,3	184,7	221	257,4
Test certificates		EN/IEC61000, IEC62619, ROHS, MSDS, EN62477, UN38.3				
Protection class		IP65				

Charging / discharging capacity

Depending on the combination of HWR and SKB, different charging / discharging capacities result, which must be taken into account in the design.

Sonnenkraft hybrid inverter 1-phase

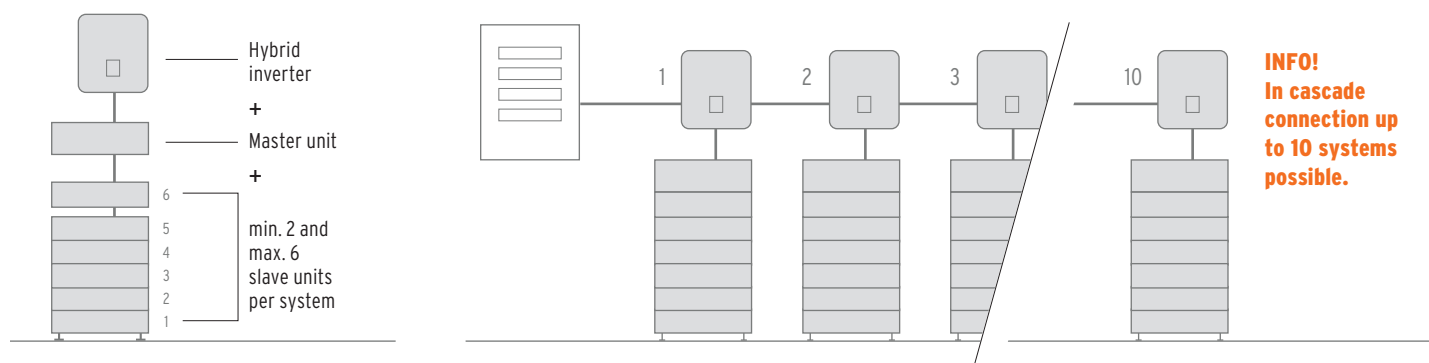
SK-HWR-1PH-30	kW	3,0	3,0	3,0	3,0	3,0
SK-HWR-1PH-46	kW	4,0	4,0	4,0	4,0	4,0
SK-HWR-1PH-60	kW	6,0	6,0	6,0	6,0	6,0

Sonnenkraft hybrid inverter 3-phase

		SK-B-8	SK-B-12	SK-B-16	SK-B-20	SK-B-24	SK-B-29
SK-HWR-6	kW	x	4,5	6,0	6,0	6,0	6,0
SK-HWR-8	kW	x	4,5	6,0	7,5	8,0	8,0
SK-HWR-10	kW	x	4,5	6,0	7,5	9,0	10,0
SK-HWR-12	kW	x	4,5	6,0	7,5	9,0	10,5

Sonnenkraft hybrid inverter pro 3-phase

		SK-B-8	SK-B-12	SK-B-16	SK-B-20	SK-B-24	SK-B-29
SK-HWR-15-P	kW	x	8,6	11,5	14,4	15,0	15,0
SK-HWR-20-P	kW	x	8,6	11,5	14,4	17,3	20,0
SK-HWR-30-P	kW	x	8,6	11,5	14,4	17,3	20,2



The PRO series of SONNENKRAFT hybrid inverters has 2 battery inputs for max. 29.03 kWh each.
This corresponds to a total output of ma. 58.06 kWh.