



SOLAR POWER STORAGE SYSTEM

# SONNENKRAFT BATTERY

SK Battery 12 - 29 kWh

## Easy installation

Flexible configuration, plug & play installation,  
built-in fuse protection - easy wireless expansion.

## high-voltage batteries

lightweight construction, 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 can be expanded modularly  
(wirelessly) 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!**

**Optimization of the  
own consumption and  
electricity cost reduction.**

# 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	
nominal capacity	Wh	12,440	16,590	20,740	24,880	29,030
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. charge/discharge current	A	50				
peak discharge current	A	60 A @ 30 sec.				
charging/discharging efficiency of the battery		> 95%				
depth of discharge		90%				
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				
moisture		0% to 100% (non-condensing)				
operating 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
height master	mm	170	170	170	170	170
height slave	mm	119	119	119	119	119
height of the 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 power

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

### Sonnenkraft hybrid inverter 1-phase

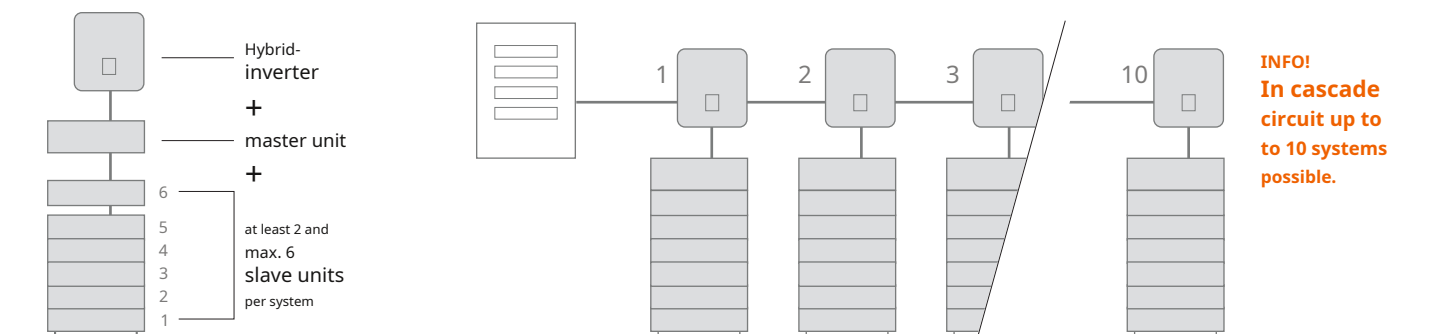
SK-HWR-1PH-30	kW	3.0	3.0	3.0	3.0	3.0	3.0
SK-HWR-1PH-46	kW	4.0	4.0	4.0	4.0	4.0	4.0
SK-HWR-1PH-60	kW	6.0	6.0	6.0	6.0	6.0	6.0

### Sonnenkraft hybrid inverter 3-phase

		<b>SK-B-8</b>	<b>SK-B-12</b>	<b>SK-B-16</b>	<b>SK-B-20</b>	<b>SK-B-24</b>	<b>SK-B-29</b>
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

		<b>SK-B-8</b>	<b>SK-B-12</b>	<b>SK-B-16</b>	<b>SK-B-20</b>	<b>SK-B-24</b>	<b>SK-B-29</b>
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 a maximum of 29.03 kWh each. This corresponds to a total output of max. 58.06 kWh.**