



Hybrid inverter Pro

SK-HWR-P

SK Hybrid inverter PRO 15 - 30 kW

Simple installation

Flexible configuration, plug-and-play setup,
built-in fuse protection

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) Hybrid inverter Pro possible in combination with 2 battery towers of 29kWh each

IP 65 protection class

Designed to offer maximum flexibility, suitable for outdoor use

Remote monitoring

Monitor your inverter remotely via an app or the web portal - e.g. current PV power, consumption. State of charge of the battery, error messages

Integrated 3-phase emergency power function

The PRO hybrid inverter automatically switches to emergency power mode in the event of a grid failure (20 ms) - supplying the household loads via the PV system or Sonnenkraft battery

Dynamic power limitation (export control)

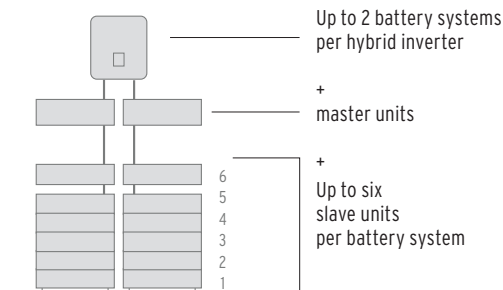
Flexible setting option to ensure that the prescribed export limit of the grid operator is not exceeded



POWERFUL:
Emergency power
solutions for private or
commercial installations

INVERTER SK-HWR-PRO

		SK-HWR-15-P	SK-HWR-20-P	SK-HWR-30-P
Input (DC)				
Max. recommended DC power	W	22500	30000	45000
Max. recommended DC power ¹	W/MPP	7500 / 7500 / 7500	10000 / 10000 / 10000	15000 / 15000 / 15000
Max. DC voltage ²	V	1000	1000	1000
DC rated operating voltage	V	750	750	750
Max. Input current	A	32	32	32
Max. Short-circuit current	A	40	40	40
MPPT voltage range (full load)	Vdc	150 - 850 (170 - 850)	150 - 850 (230 - 850)	150 - 850 (340 - 850)
Starting operating voltage	V	160	160	160
No. of MPPT trackers (strings per MPPT tracker)		3 (2 / 2 / 2)	3 (2 / 2 / 2)	3 (2 / 2 / 2)
Battery				
Typ		LiFePO4 Prismatische Zelle		
Battery voltage (range 150 - 800)	V	150-800V	150-800V	150-800V
Max. Charge/discharge current	A	50 + 50	50 + 50	50 + 50
Number of battery inputs (interfaces)		2 (CAN)	2 (CAN)	2 (CAN)
Input / Output (AC)				
AC rated power input	VA	22500	30000	35000
Max. Output current (per phase) Input	A	34,1	45,5	53,0
AC rated power output	VA	15000	20000	30000
Max. Output current (per phase) Output	A	25,0	33,3	45,5
Max. Apparent power	VA	16500	22000	30000
Rated voltage	Vac	400 / 230 ; 380 / 220 , 3L / N / PE		
Rated frequency	Hz	50 / 60 , ± 5		
Power factor/reactive power factor (cos phi)		1 (setting range from 0.8 kap - 0.8 ind)		
Distortion factor (THDi) at rated power		< 3 %		
Emergency power supply output (backup power capability)				
AC output power	VA	15000	20000	30000
Rated voltage	Vac	400 / 230 ; 380 / 220 , 3L / N / PE		
Rated frequency	Hz	50 / 60 , ± 5		
EPS Output current (per phase)	A	22,7	30,3	45,5
Power factor/reactive power factor (cos phi)		1 (setting range from 0.8 kap - 0.8 ind)		
Switching time	ms	< 20		
Distortion factor (THDi) at rated power	%	< 3		
Efficiency				
MPPT-Efficiency	%	99,90	99,90	99,90
Max. Efficiency	%	97,80	97,80	97,80
Max. Efficiency Battery zu AC	%	97,60	97,60	97,60
Max. Efficiency PV to Battery	%	98,10	98,10	98,10
Europ. Efficiency	%	97,30	97,40	97,40
Protection				
Integrated fuse protection		PV reverse polarity protection, battery reverse polarity protection, PV reverse current block diode, battery reverse current protection, anti-islanding protection, output short-circuit protection, RCMU, ISO measurement, overvoltage category II (AC side), II (DC side), reverse current blocking, overcurrent protection/temperature protection, AC / DC surge arrester type II/type II, AFCI protection, DC switch		
Protection class I		IP65 - suitable for outdoor use		
General data				
Dimensions (WxHxD)	mm	600 x 560 x 225	600 x 560 x 225	600 x 560 x 225
Net weight	kg	52,5	52,5	52,5
Installation		Wall-mounted	Wall-mounted	Wall-mounted
Operating temperature range	°C	- 25 ... + 60 (ab + 45 throttling)		
Storage temperature	°C	- 40 ... + 70		
Normal noise emission	dB	< 45	< 45	< 60
Air humidity	%	0 - 95 (non-condensing)		
Max. Operating altitude	m	< 4000		
Power consumption	W	15 (standby cold)		
Idle mode		YES		
Cooling concept		Intelligent fan		
Inverter topology		transformerless		
Communication interfaces		Ethernet, Meter, WIFI, 4G(optional), DRM, USB, BMS(CAN), RS485		
LCD display		Backlight, 16x4 characters		
Operation / Beeper		4 x capacitive button / beeper with acoustic signal for EPS & earth faults		
Test certificates / Warranty				
guarantee		10 years after registration (see warranty registration in the download area)		
Safety / EMC		EN 62109-1, EN 62109-2 / IEC 61000-6-2, IEC 61000-6-3		



INFO:
10 systems in cascade connection possible:
Up to 580 Kwh battery capacity and
300 kW inverter power.

¹Per MPP max. PV input power 15.kW.
²PV input voltage greater than 950V.
 PV overvoltage error is reported.