



INVERTER

SK-HWR

SK hybrid inverter 6 - 12 kW

Easy to use

Flexible installation and commissioning thanks to the integrated LCD display

Unique cooling fin design

The special "Cool Fin" design promotes rapid heat dissipation via a large surface area. Models from SKHWR10 onwards are also equipped with noise-optimized fans.

3-phase, integrated emergency power function

Inverter switches automatically (20 ms) to emergency power mode in the event of a power failure - supply of selected household consumers via PV system or SONNENKRAFT BATTERY

IP 65 protection class

Designed to offer maximum flexibility, suitable for outdoor use

Remote monitoring

Remotely monitor your inverter via an app or the web portal - e.g. current PV power, consumption, battery charge level, WR parameters can be adjusted remotely



**OPTIMIZATION OF
OWN CONSUMPTION!**
**Reducing electricity costs
and smoother**

Emergency power operation.

HYBRID INVERTER SK-HWR

	SK-HWR-6	SK-HWR-8	SK-HWR-10	SK-HWR-12
DC input (PV)				
Max. recommended DC power	W	A: 4500 B: 4500	A: 8000 B: 5000	A:8000 B: 5000
Max. DC voltage	V		1000	
DC nominal operating voltage	V		720	
Max. input current (input A / input B)	A	14A / 14A	26A / 14A	26A / 14A
Max. short circuit current	A	16A / 16A	32A / 16A	32A / 16A
Starting operating voltage	V		160V	
MPPT voltage range	V		160 - 950	
MPPT number	Pcs.		2	
Strings per MPPT tracker		1 + 1	2 + 1	2 + 1
DC input (battery)				
Input voltage range	V		150 - 460	
Max. charge/discharge current	A		26	
AC input/output				
Max. AC input current	A	18.2	24.2	24.2
AC Output Rated Power	W	6000	8000	10000
Max. AC output power	VA	6600	8800	11000
Max. AC output current (per phase)	A	9.6	12.8	16.0
Nominal mains voltage (AC voltage range)	V		400V/230VAC; 380V/220VAC, 3L/N/PE	
Nominal network frequency/range	Hz		50/60, +/- 5	
Power factor (cos phi)			1 (adjustment range 0.8 cap - 0.8 ind)	
Total harmonic distortion (THD) at rated power			< 3%	
Unbalanced output				
Parallel connection			Yes (max. 10 pcs.)	
AC inrush current			15A @ 0.5ms	
Emergency power supply output (standby power capability)				
AC Output Rated Power	W	6000	8000	10000
Max. AC output power (60s)	VA	12000	14000	15000
Nominal voltage	V		400V/230VAC; 380V / 220VAC, 3 L/N/PE	
Nominal frequency	Hz		50/60	
Max. AC output current (per phase)	A	18.2	21.2	22.7
Power factor (cos phi)			1 (setting range 0.8 cap -0.8 ind)	
Switching time			< 20ms	
Total harmonic distortion (THD), linear load			< 3%	
Efficiency				
MPPT efficiency		99.90%	99.90%	99.90%
Max. efficiency		97.80 %	98.00%	98.00%
European efficiency		97.20%	97.30%	97.30%
Protection				
integrated fuse protection		PV reverse polarity protection, battery reverse polarity protection, anti-islanding protection, output short circuit protection, leakage current protection, insulation monitoring, DC reverse polarity protection, overcurrent protection / overtemperature protection, DC disconnect switch, string monitoring function, overvoltage protection SPD AC: Type II / DC: Type II		
Protection class		I		
Degree of protection (according to IEC 60529)		IP65		
Inverter topology		transformerless		
general data and permissible environmental conditions				
Dimensions (W x H x D)	mm	449x519x198		
Net weight	kg	28		
Assembly		Wall mounting		
Operating temperature range	°C	- 25 ... + 60 (throttled from + 45)		
Storage temperature	°C	- 40 to + 70		
humidity	%	0% - 95% (non-condensing)		
Max. operating height	m	2000		
Standby consumption	W	15W for cold standby		
idle		Yes		
Communication interface		Ethernet, Meter, WIFI, 4G (optional), DRM, USB,BMS (CAN&RS485), RS485		
guarantee		10 years after registration (see warranty registration in the download area)		
Test certificates		EN/IEC61000, EN/IEC62109, VDE4105, TOR Generator Type A Version 1.2, OVE Directive R25:2020		