



Inverter

SK-HWR

SK Hybrid inverter 6 - 12 kW

Simple operation

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 promotes rapid heat dissipation. The models from SKHWR10 upwards are also equipped with noise-optimized fans.

3-phase, integrated emergency power function

The 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

IP 65 protection class

Developed 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, error messages

Optimization of self-consumption, reduction in electricity costs and smooth 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	A: 9000 B: 6000
Max. DC voltage	V			1000	
DC nominal operating voltage	V			720	
Max. Input current (Eingang A / Eingang B)	A	14 A / 14 A	26 A / 14 A	26 A / 14 A	26 A / 14 A
Max.Short-circuit current	A	16 A / 16 A	32 A / 16 A	32 A / 16 A	32 A / 16 A
Starting operating voltage	V		160 V		
MPPT- Voltage range	V		160 - 950		
MPPT-Voltage range (Full load)	Vdc	250 - 800	240 - 800	280 - 800	320 - 800
MPPT count	pcs.		2		
Strings per MPPT tracker		1 + 1	2 + 1	2 + 1	2 + 1
AC input/output					
Max. AC input power	VA	12000	16000	16000	16000
Max. AC input current	A	18,2	24,2	24,2	24,2
AC output Rated power	W	6000	8000	10000	12000
Max. AC output power	VA	6600	8800	11000	13200
Max. AC output current (per phase)	A	9,6	12,8	16,0	19,2
Rated mains voltage (AC Voltage range)	V		400 V / 230VAC; 380 V / 220 VAC, 3L/N/PE		
Nominal network frequency/range	Hz		50/60, +/- 5		
Power factor (cos phi)			1 (setting range 0,8 cap - 0,8 ind)		
Distortion factor (THDi) at rated power			< 3 %		
Unbalanced output			Yes		
Parallel connection			Yes (max. 10 pcs.)		
AC inrush current			15 A @ 0.5 ms		
Emergency power supply output (backup power capability)					
AC output Rated power	W	6000	8000	10000	12000
Max. AC output power (60s)	VA	12000	14000	15000	15000
Rated voltage	V		400 V / 230 VAC; 380 V / 220 VAC, 3 L/N/PE		
Rated frequency	Hz		50/60		
Max. AC output current (per phase)	A	18.2	21,2	22,7	22,7
Power factor (cos phi)			1 (setting range 0,8 cap -0,8 ind)		
Switching time			< 20 ms		
Distortion factor (THDi), linear load			< 3 %		
Efficiency					
MPPT-Efficiency		99,90 %	99,90 %	99,90 %	99,90 %
Max. Efficiency		97,80 %	98,00 %	98,00 %	98,00 %
Europ. Efficiency		97,20 %	97,30 %	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 disconnecter, string monitoring function, overvoltage protection SPD AC: Type II / DC: Type II			
Protection class		I			
Protection class (according to IEC 60529)		IP65			
Inverter topology		transformerless			
General data and permissible ambient conditions					
Dimensions (W x H x D)	mm	449 x 519 x 198			
Net weight	kg	28			
Mounting		Wall mounting			
Operating temperature range	°C	- 25 ... + 60 (ab + 45 throttling)			
Storage temperature	°C	- 40 bis + 70			
Air humidity	%	0 % - 95 % (non-condensing)			
Max. Operating altitude	m	2000			
Standby consumption	W	15W for cold standby			
Idle		Yes			
Communication interface		Ethernet, counter, 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 guideline R25:2020			