



Inverter

SKWR

SK hybrid inverter 4 - 25 kW

Maximum efficiency

Low starting voltage for larger generation windows with up to 97.4% efficiency.

Unique cooling fin design

The special cooling fin design promotes rapid heat dissipation over a large surface area. The models from SKWR15 and SKHWR10 are additionally equipped with noise-optimised fans.

IP 65 protection class

Designed to offer maximum flexibility, suitable for outdoor use

Remote monitoring

Remotely monitor your inverter via smartphone app or web portal - e.g. current PV power, consumption, charging status, error messages



FLEXIBLE:
perfect for private
and small commercial
installations

SK-WR-4 SK-WR-6 SK-WR-8 SK-WR-10 SK-WR-12 SK-WR-15 SK-WR-20 SK-WR-25

Input

Max. recommended DC power	W	6000	9000	12000	15000	18000	22500	30000	37500
Max. DC voltage	V	1100	1100	1100	1100	1100	1100	1100	1100
DC nominal operating voltage	V	600	600	600	600	600	600	600	600
Max. input current (input A/input B)	A	14/14	14/14	14/14	14/14	14/14	28/28	28/28	28/28
Max. short circuit current (input A/ input B)	A	18.2/18.2	18.2/18.2	18.2/18.2	18.2/18.2	18.2/18.2	36.4/36.4	36.4/36.4	36.4/36.4
MPPT voltage range	Vdc	140-1000	140-1000	140-1000	140-1000	140-1000	140-1000	140-1000	140-1000
MPPT voltage range (full load)	Vdc	155-850	230-850	300-850	380-850	455-850	275-850	370-850	460-850
Starting voltage	V	140	140	140	140	140	140	140	140
No. MPPT trackers		2	2	2	2	2	2	2	2
Strings per MPPT tracker		1+1	1+1	1+1	1+1	1+1	2+2	2+2	2+2

Output

AC nominal power	W	4000	6000	8000	10000	12000	15000	20000	25000
Max. AC power	VA	4400	6600	8800	11000	13200	16500	22000	27500
Rated mains voltage (AC voltage range)	Vac	3/N/PE, 220V/380V, 230V/400V, 240V/415V	3/N/PE, 220V/380V, 230V/400V, 240V/415V	3/N/PE, 220V/380V, 230V/400V, 240V/415V	3/N/PE, 220V/380V, 230V/400V, 240V/415V	3/N/PE, 220V/380V, 230V/400V, 240V/415V	3/N/PE, 220V/380V, 230V/400V, 240V/415V	3/N/PE, 220V/380V, 230V/400V, 240V/415V	3/N/PE, 220V/380V, 230V/400V, 240V/415V
Nominal network frequency	Hz	50/60, ± 5	50/60, ± 5	50/60, ± 5	50/60, ± 5	50/60, ± 5	50/60, ± 5	50/60, ± 5	50/60, ± 5
AC rated current	A	5.8	8.7	11.6	14.5	17.4	21.7	29.0	36.2
Max. AC current	A	6.4	9.6	12.8	15.9	19.1	23.9	31.9	39.9
Power factor / reactive power factor (cos phi)		1 (setting range 0.8 cap -0.8 ind)							
Distortion factor (THDi) at nominal power		< 3%	< 3%	< 3%	< 3%	< 3%	< 3%	< 3%	< 3%

Efficiency

MPPT efficiency	%	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
Europ. efficiency	%	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
Max. efficiency	%	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6

Protection

Integrated fuse protection		DC reverse polarity protection, anti-islanding protection, insulation monitoring, residual current monitoring, AC short circuit protection, AC output overcurrent protection, AC output overvoltage protection, SPD AC overvoltage protection: type II / DC: type II, temperature protection, integrated DC switch, AFCI protection							
Protection class		I in accordance with IEC60529: IP65							
Safety certificates		IEC62109-1/2; EMC: IEC 61000-6-1/IEC 61000-6-2/IEC 61000-6-3/IEC61000-4-2/3/4/5/6/8; DC-/AC-overvoltage category: II / III							

General information

Dimensions (WxHxD)	mm	370 x 480 x 183.5							
Net weight	kg	17	17	17	17	17	20	20	21
Cooling concept		Convection	Convection	Convection	Convection	Convection	Fan	Fan	Fan
Normal noise emission	dB	< 30	< 30	< 30	< 30	< 30	< 55	< 55	< 55
Operating temperature range	°C	-25... +60 (derating at +45)							
Storage temperature		-40... +70°C							
Max. operating height	m	3000							
Humidity		0-100% (non-condensing)							
Own consumption (night)	W	< 3							
Contamination level		II							
Communication interfaces		Counter, DRM, USB update, e-stop							
Display		LCD display, touch key, app, web portal							
Warranty		10 years							

Unique cooling fin design

The special cooling fin design promotes rapid heat dissipation over a large surface area.

The u-shaped notch on the "star"-design cooling fins also accelerates the dissipation of heat, while the star design increases the contact area so that the airflow can cool even more effectively.

Fanless cooling concept

Thanks to the special cooling fin design, SONNENKRAFT inverters do not require a fan. The models from SKWR15 are additionally equipped with noise-optimised fans.

