

# SWH 8-12 kW

Single-phase Hybrid Inverter (Low Voltage)



## MODEL

SWH008KL-S1-SR | SWH010KL-S1-SR  
SWH012KL-S1-SR



Efficiency Up to 22A\*2 PV input current



Outputs high-quality pure sine wave AC power



With IP65 protection degree



Up to 200A charging current



Time-slot function to save cost with peak-valley

Model	SWH008KL-S1-SR	SWH010KL-S1-SR	SWH012KL-S1-SR
<b>Inverter Output</b>			
Rated Output Power [W]	8800	10000	12000
Max. Peak Power [VA]	17600	20000	24000
Rated Output Voltage [Vac]	220/230/240 single-phase / three-phase (parallel)		
Load Capacity of Motors	5HP	6HP	
Output Frequency Range [Hz]	50 ± 0.3/60 ± 0.3		
Number of Parallel	1-6 units		
Switching Time	10ms (typical value)		
<b>AC Output (Grid)</b>			
Rated Output Power [W]	8800	10000	12000
Max. Apparent Power [VA]	8800	10000	12000
Rated AC out Current [A]	38.2	43.5	52.2
Max. Output Current [Vac]	40	45.5	54.5
Rated Output Voltage	220/230/240		
THDI	< 3%		
Power Factor	0.8 leading to 0.8 lagging		
Frequency [Hz]	50/60		
<b>Battery</b>			
Battery Type	Lead-acid / Li-ion / User-defined		
Rated Battery Voltage [V]	48		
Battery Voltage Range [Vdc]	40-60		
Max. Generator Charging Current [A]	60		
Max. Grid Charging Current [A]	120		
<b>PV Input</b>			
Num. of MPPT Trackers	2		
Max.PV Array Power [W]	5500+5500		6600+6600
Max. Input Current [A]	22+22		
Max.Voltage of Open Circuit [Vdc]	500+500		
MPPT Operating Voltage Range [Vdc]	125-425		
<b>Mains/Generator Input</b>			
Input Voltage Range [Vdc]	90-280		
Frequency Range [Hz]	50/60		
Bypass Overload Current [A]	63		
<b>Efficiency</b>			
MPPT Tracking Efficiency	99.9%		
Max. Efficiency	97.5%		
European Efficiency	97.0%		
<b>General</b>			
Dimensions (W*H*D) [mm]	440*670*240		
Weight [Kg]	37		
Protection Degree	IP65		
Operating Temperature Range	-25-60° C (>45° C derating)		
Humidity Range	0%-100%		
Cooling Method	Forced air cooling		
<b>Communication</b>			
Embedded Interfaces	RS485 / CAN / USB / Dry contact		
External Module (optional)	Wi-Fi / GPRS		
<b>Certification</b>			
Safety / EMC	IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3, FCC15 classB		
RoHS	Yes		
<b>Protection</b>			
Protection	PV Reverse Protection / Anti-Islanding Protection / Residual-Current Monitoring / Insulation Resistance Monitoring / Output Short-Circuit Protection / Output Over-Current Protection / Over-Voltage Protection / Surge Protection		