

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	
Inverter Output						
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)					
AC Output (Grid)						
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					
Battery						
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					
PV Input						
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					
Mains/Generator Input						
Input Voltage Range [Vdc]	90-280					
Frequency Range [Hz]	50/60					
Bypass Overload Current [A]	63					
Efficiency						
MPPT Tracking Efficiency	99.9%					
Max. Efficiency	97.5%					
European Efficiency	97.0%					
General						
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					
Communication						
Embedded Interfaces	RS485 / CAN / USB / Dry contact					
External Module (optional)	Wi-Fi / GPRS					
Certification						
Safety / EMC	IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3, FCC15 classB					
RoHS	Yes					
Protection						
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					