

SWH 3/3.68/4/4.6/5/6 kW

Single-phase Hybrid Inverter (Low Voltage)



MODEL

SWH3000L-S1-BM11		SWH3680L-S1-BM22
SWH4000L-S1-BM22		SWH4600L-S1-BM22
SWH5000L-S1-BM22		SWH6000L-S1-BM22



160% oversizing



Switching time <4ms



Fanless design, maintenance-free



Max.18A PV input current to match high-power PV module



AFCI Optional

Model	SWH3000L-S1-BM11	SWH3680L-S1-BM22	SWH4000L-S1-BM22	SWH4600L-S1-BM22	SWH5000L-S1-BM22	SWH6000L-S1-BM22
PV Input						
Recommended Max. PV Input Power [Wp]	4800	5888	6400	7360	8000	9600
Max. Input Voltage [V]	500					
MPPT Voltage Range [V]	100-450					
Rated Voltage [V]	360					
Start-up Voltage [V]	120					
No. of MPPT Trackers	1	2	2	2	2	2
No. of PV Strings per MPPT	1	1/1	1/1	1/1	1/1	1/1
Max. Input Current per MPPT [A]	18	18/18	18/18	18/18	18/18	18/18
Max. Short Circuit Current per MPPT [A]	27	27/27	27/27	27/27	27/27	27/27
AC Output						
Rated Output Power [W]	3000	3680	4000	4600	5000	6000
Rated Output Current [A]	13	16	17.4	20	21.7	26.1
Max. Output Current [A]	14.3	16	19.1	20	23.9	28.7
Max. Apparent Output Power [VA]	3300	3680	4400	4600	5500	6600
Rated Output Voltage [V]	220/230/240					
Rated Grid Frequency [Hz]	50/60					
Power Factor [cos ϕ]	1(0.8leading~ 0.8lagging)					
THDi (Rated Output Power)	<3%					
AC Input (Grid)						
Max. Apparent Input Power [VA]	6000	7360	8000	9200	9200	9200
Max. Input Current [A]	26.1	32	34.8	40	40	40
Rated Output Voltage [V]	220/230/240					
Rated Grid Frequency [Hz]	50/60					
Battery						
Battery Module Type	Lithium-ion/Lead-acid					
Battery Voltage Range [V]	40-60					
Maximum Charge/Discharge Current [A]	70	90	90	120	120	135
Battery Communication	CAN/RS485					
AC Output (Backup)						
Rated Output Power [W]	3000	3680	4000	4600	5000	6000
Rated Output Voltage [V]	220/230/240					
Rated Output Frequency [Hz]	50/60					
Rated Output Current [A]	13	16	17.4	20	21.7	26.1
THDi (Rated Output Power)	<3%					
Switch Time [ms]	4					
Peak Apparent Power , Duration [VA, s]	6000,10	7360,10	8000,10	9200,10	10000,10	12000,10
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	96.50%					
Battery Charged/Discharged to AC Max. Efficiency	96.0%@Charge/95.0%@Discharge					
Protection						
DC Switch	Integrated					
Insulation Resistance Detection	Integrated					
PV Input Reverse Polarity Protection	Integrated					
Anti-island Protection	Integrated					
Residual Current Monitoring	Integrated					
Overtemperature Protection	Integrated					
DC Surge Protection	Integrated (Type II)					
AC Surge Protection	Integrated (Type II)					
AFCI	Optional					
Remote shutdown	Optional					
General Data						
Dimensions (W*H*D) [mm]	400*520*223.5					
Weight [kg]	18.5					
Display	LCD/WEB/APP					
Communication	RS485/WiFi/LAN					
Operating Temperature Range [°C]	- 30~+60 (if>45° C,output power derating)					
Relative Humidity	0%~100%, Non-condensing					
Operation Altitude[m]	≤ 3000 (if ≥ 2000 output power derating)					
Self Consumption (night) [W]	<10					
Topology	Non-Isolated					
Cooling Concept	Natural Convection					
Protection level	IP66					
Noise	<30dB					