

Solavita

SWH 3/4/5/6 kW

Single-phase Hybrid Inverter (Low Voltage)



MODEL

SWH3000L-S1 | SWH4000L-S1
SWH5000L-S1 | SWH6000L-S1



150% oversizing



Switching time <10ms



Fanless design, maintenance-free



Supports lead-acid batteries
& lithium batteries

Model	SWH3000L-S1	SWH4000L-S1	SWH5000L-S1	SWH6000L-S1
PV Input				
Recommended Max. PV Input Power [Wp]	4500	6000	7500	9000
Max. Input Voltage [V]			600	
MPPT Voltage Range [V]			120-550	
Rated Voltage [V]			360	
Start-up Voltage [V]			150	
No. of MPPT Trackers	1	2	2	2
No. of PV Strings per MPPT	1	1/1	1/1	1/1
Max. Input Current per MPPT [A]	14	14/14	14/14	14/14
Max. Short Circuit Current per MPPT [A]	18	18/18	18/18	18/18
AC Output				
Rated Output Power [W]	3000	4000	5000	6000
Rated Output Current [A]	13	17.4	21.7	26.1
Max. Output Current [A]	15	20	25	27.3
Max. Apparent Output Power [VA]	3300	4400	5500	6600
Rated Output Voltage [V]			220/230/240	
Rated Grid Frequency [Hz]			50/60	
Power Factor			1/0.8(leading)~0.8(lagging)	
THDi (Rated Output Power)			<3%	
AC Input (Grid)				
Max. Apparent Input Power [VA]	6000	8000	10000	12000
Max. Input Current [A]	27.3	36.4	45.5	54.6
Rated Output Voltage [V]			220/230/240	
Rated Grid Frequency [Hz]			50/60	
Battery				
Battery Module Type		Lithium-ion battery / Lead-acid Battery		
Battery Voltage Range [V]		42-58		
Max. Charge/Discharge Current [A]	75	85	90	100
Max. Charge Power [W]	3750	4250	5000	5000
Max. Discharge Power [W]	3750	4250	5000	5000
Battery Communication		CAN, RS485		
AC Output (Backup)				
Rated Output Power [W]	3000	4000	5000	5000
Rated Output Voltage [V]			220/230/240	
Rated Output Frequency [Hz]			50/60	
Rated Output Current [A]	13	17.4	21.7	21.7
THDi (Rated Output Power)			<3%	
Switch Time [ms]			<10	
Peak Apparent Power , Duration [VA, s]	4500,30	5100,30	6000,30	6000,30
Efficiency				
Max. Efficiency	97.6%	97.6%	97.8%	98%
EU Efficiency	97.2%	97.2%	97.3%	97.3%
Battery Charged/Discharged to AC Max. Efficiency		94.6%@Charge/94.6%@Discharge		
Protection				
DC Switch		Integrated		
Insulation Resistance Detection		Integrated		
Input Reverse Polarity Protection		Integrated		
Anti-island Protection		Integrated		
Residual Current Monitoring		Integrated		
String Current Detection		Integrated		
DC Surge Protection		Integrated (Type II)		
AC Surge Protection		Integrated (Type II)		
General Data				
Dimensions (W*H*D) [mm]		534*418*210		
Weight [kg]		23		
Display		LED		
Communication		WiFi/4G		
Operating Temperature Range [°C]		-25~+60		
Relative Humidity		0%~100%, Non-condensing		
Operation Altitude [m]		0~4000, if ≥2000 , Power Reduction Needed		
Self Consumption (night) [W]		<10		
Topology		Transformerless		
Cooling Concept		Natural Convection		
Protection level		IP66		