

SWH 3/4/5/6 kW

Single-phase Hybrid Inverter (High Voltage)



MODEL

SWH3000H-S1 | SWH4000H-S1
SWH5000H-S1 | SWH6000H-S1



150% oversizing



Switching time <10ms



EU efficiency up to 97%



AC and DC surge protection

Model	SWH3000H-S1	SWH4000H-S1	SWH5000H-S1	SWH6000H-S1
PV Input				
Recommended Max. PV Input Power [Wp]	4500	6000	7500	9000
Max. Input Voltage [V]			600	
MPPT Voltage Range [V]			80-580	
Rated Voltage [V]			360	
Start-up Voltage [V]			90	
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]	13.6	18.2	22.7	27.3
Max. Output Current [A]	15	20	25	30
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(0.8leading~ 0.8lagging)	
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	54.5
Rated Output Voltage [V]			220/230/240	
Rated Grid Frequency [Hz]			50/60	
Battery				
Battery Module Type			Lithium Iron Phosphate(LFP)	
Battery Voltage Range [V]			80-450	
Max. Charge/Discharge Current [A]			25	
Max. Charge Power [W]	4500	6000	7500	9000
Max Discharge Power [W]	3000	4000	5000	6000
Battery Communication			CAN/RS485	
AC Output (Off-grid)				
Rated Output Power [W]	3000	4000	5000	6000
Rated Output Voltage [V]			220/230/240	
Rated Output Frequency [Hz]			50/60	
Rated Output Current [A]	13.6	18.2	22.7	27.3
THDU (Rated Output Power, R Load)			< 3%	
Switch Time [ms]			10	
Peak Apparent Power , Duration [VA, s]	4500,60	6000,60	7500,60	7500,60
Efficiency				
Max. Efficiency			97.8%	
EU Efficiency			97%	
Battery Charged/Discharged to AC Max. Efficiency			98.5%@Charge/97.0%@Discharge	
Protection				
DC Switch			Integrated	
Insulation Resistance Detection			Integrated	
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)	
General Data				
Dimensions (W*H*D) [mm]			536*444*173	
Weight [kg]			18.5	
Display			LCD/WEB/APP	
Communication			WIFI/RS485/LAN	
Operating Temperature Range [°C]			-25~+60; if>45° C, Power Reduction Needed	
Relative Humidity			0%~100%, Non-condensing	
Operation Altitude [m]			0~4000, if ≥ 2000, Power Reduction Needed	
Self Consumption (night) [W]			< 8	
Topology			Transformerless	
Cooling Concept			Natural Cooling	
Protection level			IP66	
Noise			< 30dB	