

SKYWORTH

SWH 5/8/10/12/15 kW

Three-phase Hybrid Inverter (High Voltage)



MODEL

SWH005KH-T1 | SWH008KH-T1
SWH010KH-T1 | SWH012KH-T1
SWH015KH-T1



Low starting voltage,
wide operating voltage range



Switching time <10ms



Flexible monitoring mode



AC and DC surge protection

Model	SWH005KH-T1	SWH008KH-T1	SWH010KH-T1	SWH012KH-T1	SWH015KH-T1
PV Input					
Recommended Max. PV Power [Wp]	6500	10400	13000	15600	18750
Max. Input Voltage [V]			1000		
MPPT Voltage Range [V]			180-950		
Rated Voltage [V]			600		
Start-up Voltage [V]			200		
No. of MPPT Trackers			2		
No. of PV Strings per MPPT	1/1			2/1	
Max. Input Current per MPPT [A]	15/15			30/15	
Max. Short Circuit Current per MPPT [A]	18/18			36/18	
AC Output					
Rated Output Power [W]	5000	8000	10000	12000	15000
Rated Output Current [A]	7.2	11.6	14.5	17.4	21.7
Max. Output Current [A]	7.9	12.7	15.9	19.1	23.8
Max. Apparent Output Power [VA]	5500	8800	11000	13200	16500
Rated Output Voltage [V]			220/380; 230/400; 240/415		
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]	5500	8800	11000	13200	16500
Max. Input Current [A]	7.9	12.7	15.9	19.1	23.8
Rated Input Voltage [V]			220/380; 230/400; 240/415		
Rated Grid Frequency [Hz]			50/60		
Battery					
Battery Type			Lithium Iron Phosphate(LFP)		
Battery Voltage Range [V]			150-600		
Max. Charge/Discharge Current [A]			25		
Battery Communication			CAN		
AC Output (Off-grid)					
Rated Output Power [W]	5000	8000	10000	12000	15000
Rated Output Voltage [V]			220/380; 230/400; 240/415		
Rated Output Frequency [Hz]			50/60		
Rated Output Current [A]	7.2	11.6	14.5	17.4	21.7
THDi (Rated Output Power)			< 3%		
Switch Time [ms]			10		
Peak Apparent Power , Duration [VA, s]	7500, 30	12000, 30	15000, 30	18000, 30	22500, 30
Efficiency					
Max. Efficiency			98.70%		
EU Efficiency			97.80%		
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]			498*563*200		
Weight [kg]		28			29
Display			LCD/WEB/APP		
Communication			WIFI/RS485/LAN		
Operating Temperature Range [°C]			-25~+60		
Relative Humidity			0%~100%, Non-condensing		
Operation Altitude [m]			≤ 4000, if >2000, Power Reduction Needed		
Self Consumption (night) [W]			< 15		
Topology			Transformerless		
Cooling Concept			Natural Convection		Smart Fan-cooling
Protection level			IP66		