

H2 5-10K Low Voltage Hybrid Inverter

SAJ's Low Voltage solution of hybrid inverter, allow to be compatible with both LFP and Lead-Acid Battery, support storing energy from diesel generator, provide a most cost efficiency solution for those entry-level market. H2 covers 5-10kW, 2MPPTs, single phase grid.



- ❑ Max. 20A input current to better match high power panel
- ❑ 200% DC oversizing
- ❑ Built-in meter zero export limiter
- ❑ Max. 4 pcs parallel for on-grid and off-grid operation
- ❑ Heat-resistant (> 50°C with derating)
- ❑ Support generator / smart load access

H2-5K-LS2 | H2-6K-LS2
H2-7.6K-LS2 | H2-8K-LS2 | H2-10K-LS2

MODEL	H2-5K-LS2	H2-6K-LS2	H2-7.6K-LS2	H2-8K-LS2	H2-10K-LS2
DC Input					
Max. PV Array Power [Wp]@STC	10000	12000	15200	16000	20000
Max. DC Voltage [V]			500		
MPPT Voltage Range [V]			90 ~ 480		
Rated DC Voltage [V]			360		
Start Voltage [V]			80		
Max. DC Input Current [A]	20/20			40/40	
Max. DC Short Circuit Current [A]	25/25			50/50	
No. of MPPT			2		
Battery Parameters					
Battery Type			Lead-acid or LiFePO4		
Battery Voltage Range [V]			40 ~ 60		
Max. Charging/Discharging Current [A]	100	120	190	190	240
AC Output [On-grid]					
Rated AC Power [W]	5000	6000	7600	8000	10000
Max. Apparent Power [VA]	5500	6600	8360	8800	10000
Rated Output Current [A]@230Vac	21.8	26	33	34.8	43.5
Max. Output Current [A]	25	30	38	40	45.5
Rated AC Voltage/Range [V]			L+N+PE, 220,230,240/180 ~ 280		
Rated Output Frequency/Range [Hz]			50,60/45 ~ 55,55 ~ 65		
Power Factor [cos φ]			0.8 leading ~ 0.8 lagging		
Total Harmonic Distortion [THDi]			<3%		
AC Input [On-grid]					
Rated AC Voltage/Range [V]			L+N+PE, 220,230,240/180 ~ 280		
Rated Input Frequency [Hz]			50,60		
Max. Input Current [A]@230Vac	50	60	76	80	91
AC Output [Back-up]					
Max.Output Power [VA]	5000	6000	7600	8000	10000
Max. Output Current [A]	25	30	38	40	45.5
Peak Output Apparent Power [VA]	6000,60s	7200,60s	9120,60s	9600,60s	12000,60s
Rated AC Voltage/Range [V]			L+N+PE, 220,230,240/180 ~ 280		
Rated Output Frequency/Range [Hz]			50,60/45 ~ 55,55 ~ 65		
Output THDv (@ Linear Load)			<3%		
Efficiency					
Max. Efficiency			97.6%		
Euro Efficiency			97.0%		
Protection					
Battery Input Reverse Polarity Protection			Integrated		
Over load Protection			Integrated		
AC Short Circuit Current Protection			Integrated		
DC Surge Protection			Type II		
AC Surge Protection			Type II		
Anti-islanding Protection			Integrated		
AFCI Protection			Optional		
RSD Protection			Optional		
Interface					
PV Connection			Terminal Block		
AC Connection			Terminal Block		
Battery Connection			Terminal Block		
Display			LED+APP		
Communication			Wi-Fi/Ethernet/4G(Optional)		
General Parameters					
Topology			Non-isolated		
Operating Temperature Range			-40°C to +60°C (50°C to 60°C with derating)		
Cooling Method			Intelligent Fan cooling		
Ambient Humidity			0-100% Non-condensing		
Altitude			4000m (>3000m Power Derating)		
Noise [dBA]			<50		
Ingress Protection			IP65		
Dimensions [H*W*D] [mm]			590*380*241		
Weight [kg]			29		
Warranty [Year]			5/10/15/20		
Standard			EN 62109-1/2, EN 61000-6-2/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-21, AS 4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105, VDE 0126-1-1		