

H2 7.6-12kW 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 7.6-12kW, 2MPPTs, single phase grid.



- Colorful touch LCD, IP65 protection degree
- Max. 20A PV input current; DC/AC access oversizing up to 200%
- Max 240A fast charge/discharge current
- Heat-resistant (> 50°C with derating)
- Support whole home backup function with up to 63 A bypass
- Max. 4 pcs parallel for on-grid and off-grid operation, Support multiple batteries parallel
- Integrated Intelligent energy management with generator, heat pump, solar system and smart load
- Ultralight for easy installation and space-saving

H2-5K-LS2 | H2-6K-LS2 | H2-7.6K-LS2
H2-8K-LS2 | H2-10K-LS2 | H2-12K-LS2

MODEL	H2-7.6K-LS2	H2-8K-LS2	H2-10K-LS2	H2-12K-LS2
DC Input				
Max. PV Access Power [Wp]@STC	15200	16000	20000	24000
Max PV Input Power[W]	12200	12800	16000	19200
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]			40/40	
Max.DC Short Circuit Current [A]			50/50	
No. of MPPT/string			2/4	
Battery Parameters				
Battery Type			Lead-acid or LiFePO4	190
Battery Voltage Range[V]			40 ~ 60	
Max.Charging/Discharging Current [A]	190	190		240
Charging Strategy for Li-ion Battery			Self-adaption to BMS	
Number of battery input			2	
AC Output [On-grid]				
Rated AC Power [W]	7600	8000	10000	12000
Max.Apparent Power*1 [VA]	8360	8800	10000	12000
Rated Output Current [A]@230Vac	33.0	34.8	43.5	52.2
Max. Output Current [A]	38.0	40.0	45.5	54.6
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	
Bypass Current [A]@230Vac			63	
AC Output [Back-up]				
Max.Output Power [VA]	7600	8000	10000	12000
Max. Output Current [A]	38.0	40.0	45.5	54.6
Peak Output Apparent Power [VA]			2 Times , 10S	
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			Integrated	
AC Surge Protection			Integrated	
Anti-islanding Protection			Integrated	
AFCl Protection			Optional	
Interface				
PV Connection			MC4	
AC Connection			Terminal Block	
Battery Connection			Terminal Block	
Display			LCD+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]			35.0	
Standard			EN 62109-1/2, EN 61000-6-1/2/3/4, IEC 62116, IEC 61727, IEC62183, PEA&MEA, NBR 16149, NBR 16150, PORTARIA N° 140,515, NRS097	