

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			
AFCI 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℃ to +60℃ (50℃ to 60℃ 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 Nº 140,515, NRS097			