

H2 3-6K 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 3-6kW, 2MPPTs, single phase grid.



- ❑ Colorful touch LCD, IP66 protection degree
- ❑ Max. 18A PV input current; DC/AC access oversizing up to 200%
- ❑ Max 140A fast charge/discharge current
- ❑ 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

H2-3K-LS2-S | H2-3.6K-LS2-S | H2-4K-LS2-S
H2-4.6K-LS2-S | H2-5K-LS2-S | H2-6K-LS2-S

MODEL	H2-3K-LS2-S	H2-3.6K-LS2-S	H2-4K-LS2-S	H2-4.6K-LS2-S	H2-5K-LS2-S	H2-6K-LS2-S
DC Input						
Max. PV Array Power [Wp]@STC	6000	7000	8000	9200	10000	12000
Max.PV Input Power	4800	5760	6400	7360	8000	9600
Max. DC Voltage [V]	500					
MPPT Voltage Range [V]	80 ~ 450					
Rated DC Voltage [V]	360					
Start Voltage [V]	80					
Max.DC Input Current [A]	18/18					
Max.DC Short Circuit Current [A]	25/25					
No. of MPPT/String	2/2					
Battery Parameters						
Battery Type	Lead-acid or LiFePO4					
Battery Voltage Range[V]	40 ~ 60					
Max.Charging/Discharging Current [A]	80	90	100	110	120	140
Charging strategy for Li-ion battery	Self-adaption to BMS					
Communication	CAN					
AC Output [On-grid]						
Rated AC Power [W]	3000	3600	4000	4600	5000	6000
Max.Apparent Power [VA]	3300	3600	4400	4600	5500	6600
Rated Output Current [A]	13.0	15.7	17.4	20.0	21.7	26.1
Max. Output Current [A]	14.3	15.7	19.1	20.0	23.9	28.7
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240					
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					
AC Bypass Current(A)	63					
AC Output [Back-up]						
Max.Output Power [VA]	3000	3600	4000	4600	5000	6000
Max. Output Current [A]	13.0	15.7	17.4	20.0	21.7	26.1
Peak Output Apparent Power [VA]	2 Times,10S					
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240					
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					
Interface						
PV Connection	MC4					
AC Connection	Terminal Block					
Battery Connection	Terminal Block					
Display	LCD+APP					
Communication	Wi-Fi (Standard), Ethernet/4G (Optional)					
General Parameters						
Topology	Non-isolated					
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)					
Cooling Method	Nature					
Ambient Humidity	0-100% Non-condensing					
Altitude	3000m					
Noise [dBA]	<35					
Ingress Protection	IP66					
Dimensions [H*W*D] [mm]	460*350*231					
Weight [kg]	24.0					
Standard	EN 62109-1/2, EN 61000-6-2/4,IEC 62116, IEC 61727,PEA&MEA,NBR 16149, NBR 16150,PORTARIA N° 140					