

H2 8-20K 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 8-20kW, 2MPPTs, three phase grid.



- ❑ 100% unbalanced output, max. output of each phase up to 50% rated power
- ❑ Colorful touch LCD, IP66 protection degree
- ❑ Max. 20A PV input current;DC/AC access oversizing up to 200%
- ❑ Max 350A fast charge/discharge current
- ❑ Support whole home backup function with up to 75 A bypass
- ❑ Max. 10 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

H2-8K-LT2 | H2-10K-LT2
H2-12K-LT2 | H2-14K-LT2 | H2-15K-LT2
H2-16K-LT2 | H2-18K-LT2 | H2-20K-LT2

Model	H2-8K-LT2	H2-10K-LT2	H2-12K-LT2	H2-14K-LT2	H2-15K-LT2	H2-16K-LT2	H2-18K-LT2	H2-20K-LT2	
DC Input									
Max. PV Array Power [Wp]@ STC	16000	20000	24000	28000	30000	32000	36000	40000	
Max. PV Input Power (W)	12800	16000	19200	22400	24000	25600	28800	32000	
Max. PV Input Voltage (V)	1000								
MPPT Voltage Range (V)	160-950								
Start-up DC Input Voltage (V)	150								
Rated DC Input Voltage (V)	720								
Max. DC Input Current (A)							40/40		
Max. DC Short Circuit Current (A)							50/50		
No. of MPP Trackers/Strings per MPPT	2(2/1)						2(2/2)		
DC Current Injection	Integrated DC switch								
Battery Parameters									
Battery Type	Lead-acid or LiFePO4								
Battery Voltage Range (V)	40-60								
Max. Charging/Discharging Current (A)	195	210	240	270	280	320	350	350	
Number of Battery Input	2								
Charging Strategy for Li-ion Battery	Self-adaption to BMS								
AC Output [On-grid]									
Rated AC Output Active Power (W)	8000	10000	12000	14000	15000	16000	18000	20000	
Max. AC Output Apparent Power (VA)	8800	11000	13200	15400	16500	17600	19800	22000	
Rated Output Voltage (Vac)	380/400								
Rated AC Output Current (A)	12.1	15.2	18.2	21.2	22.7	24.2	27.3	30.3	
Max. AC Output Current (A)	13.4	16.7	20.1	23.4	25.1	26.7	30.1	33.4	
Bypass Current (A)	75								
Power Factor Adjustment Range	0.8 leading to 0.8 lagging								
Rated AC Voltage/Range (V)	3L/N/PE 220/380, 230/400								
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65								
Total Harmonic Distortion [THDi]	<3%								
DC Current Injection	<0.5%In								
AC Output[Back-up]									
Max. AC Output Apparent Power (VA)	8000	10000	12000	14000	15000	16000	18000	20000	
Max. AC Output Current (A)	12.2	15.2	18.2	21.3	22.8	24.3	27.3	30.4	
Peak Power (Off Grid)	2 times of rated power, 10 S								
Rated AC Voltage/Range (V)	3L/N/PE 220/380, 230/400								
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65								
Switich Time (ms)	< 10								
Total Harmonic Distortion [THDv] (@ Linear Load)	<3%								
System									
MPPT. Efficiency	> 99.9%								
Max. Efficiency	98.0%						98.5%		
Euro Efficiency	97.5%						98.0%		
Noise (dB)	< 55dB								
HMI	LED+LCD								
Communication	CAN, RS485, Wi-Fi (Standard), 4G/LAN(Optional)								
Installation Style	Wall-mounted								
Protection									
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level								
Surge Protection Level	TYPE II(DC), TYPE II(AC)								
Environment									
Protection Degree	IP66								
Cooling	Smart Cooling								
Operating Temperature Range	- 30°C to +65°C (derating above +45°C)								
Operating Humidity	0-100%, non-condensing								
Operating Altitude	4000m (>3000m Power Derating)								
Over Voltage Category	DC Type II/AC Type III								
Mechanical Data									
Cabinet Size (WxHxD mm)	470*740*270								
Weight (kg)	53								
Standard									
Safety Standard	IEC/EN 62109-1/2, EN IEC62040								
EMC Standard	IEC/EN 61000-6-1/2/3/4								
Grid Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105								