

H2 5-10K Single Phase Hybrid Inverter

SAJ's hybrid inverter supported easy setting of smart working modes, UPS 10ms switch time and fast charging/discharging speed of battery. H2 covers 5-10kW, 3MPPTs and single phase grid.



- ❑ Easy setting of smart working modes
- ❑ AFCI (optional)
- ❑ DC 16A/ string matched with ultra high PV modules
- ❑ Max. 3 MPPT trackers
- ❑ With UPS function switch time $\leq 10\text{ms}$

H2-5K-S3 | H2-6K-S3 | H2-7K-S3
H2-8K-S3 | H2-10K-S3-A | H2-10K-S3

MODEL	H2-5K-S3	H2-6K-S3	H2-7K-S3	H2-8K-S3	H2-10K-S3-A	H2-10K-S3
DC Input						
Max. PV Array Power [Wp]@STC	7500	9000	10500	12000	15000	15000
Max. DC Voltage [V]			600			
MPPT Voltage Range [V]			90 ~ 500			
Rated DC Voltage [V]			360			
Start Voltage [V]			100			
Max. DC Input Current [A]			16/16/16			
Max. DC Short Circuit Current [A]			20/20/20			
No. of MPPT			3			
Battery Parameters						
Battery Type			LiFePO4			
Battery Voltage Range [V]			85 ~ 450			
Max. Charging/Discharging Current [A]			50/50			
AC Output [On-grid]						
Rated AC Power [W]	4999	6000	7000	8000	9999	10000
Rated Apparent Power [VA]	4999	6000	7000	8000	9999	10000
Max. Apparent Power [VA]	4999	6600	7700	8800	9999	10000
Rated Output Current [A]@230Vac	21.7	26.1	30.4	34.8	43.5	43.5
Max. AC Output Current to Utility Grid [A]	21.7	28.7	33.5	38.3	43.5	43.5
Current Inrush [A]			150.0			
Max. AC Fault Current [A]			120.0			
Max. AC Over Current Protection [A]	63.0	75.0	88.0	100.0	100.0	100.0
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	21.7	26.1	30.4	34.8	43.5	43.5
AC Output [Back-up]						
Max. Apparent Power [VA]	4999	6000	7000	8000	9999	10000
Max. Continuous Current [A]	21.7	26.1	30.4	34.8	43.5	43.5
Peak Output Apparent Power [VA]	6000,60s	7200,60s	8400,60s	9600,60s	12000,60s	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			Integrated			
AC Surge Protection			Integrated			
Anti-islanding Protection			Integrated			
AFCI Protection			Optional			
RSD Protection			Optional			
Interface						
PV Connection			MC4/D4			
AC Connection			Plug-in connector			
Battery Connection			Quick connector			
Display			LED+APP			
Communication			Wifi/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			Natural convection			
Ambient Humidity			0-100% Non-condensing			
Altitude			4000m (>3000m power derating)			
Noise [dBA]			<35			
Ingress Protection			IP65			
Protection Class			I			
Dimensions [H*W*D] [mm]			430.5*549*223			
Weight [kg]			26			
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			