

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



- ❑ Easy setting of smart working modes
- ❑ AFCI (optional)
- ❑ DC 16A string matched with ultra high PV modules
- ❑ Battery fast charging/ discharging supported
- ❑ 150% DC oversizing
- ❑ With UPS function switch time $\leq 10\text{ms}$

H2-3K-S2 | H2-3.6K-S2 | H2-4K-S2
H2-5K-S2 | H2-6K-S2-IE | H2-6K-S2

MODEL	H2-3K-S2	H2-3.6K-S2	H2-4K-S2	H2-5K-S2	H2-6K-S2-IE	H2-6K-S2
DC Input						
Max. PV Array Power [Wp]@STC	4500	5400	6000	7500	9000	9000
Max. DC Voltage [V]				550		
MPPT Voltage Range [V]				90 ~ 500		
Rated DC Voltage [V]				360		
Start Voltage [V]				100		
Max. DC Input Current [A]				16/16		
Max. DC Short Circuit Current [A]				19.2/19.2		
No. of MPPT				2		
Battery Parameters						
Battery Type				LiFePO4		
Battery Voltage Range [V]				85 ~ 450		
Max. Charging/Discharging Current [A]				30/30		
AC Output [On-grid]						
Rated AC Power [W]	3000	3680	4000	5000	5500	6000
Max. Apparent Power [VA]	3300	3680	4400	5500	5500	6000
Rated Output Current [A]@230Vac	13.0	16.0	17.4	21.7*1	25.0	26.1
Max. Output Current [A]	15.0	16.7	20.0	25.0	25.0	27.3
Current Inrush [A]				100.0		
Max. AC Fault Current [A]				55.0		
Max. AC Over Current Protection [A]				55.0		
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	26.1	32.0	34.8	43.5	52.2	52.2
AC Output [Back-up]						
Max. Output Power [VA]	3000	3680	4000	5000	5500	6000
Max. Output Current [A]	13.6	16.7	18.2	22.7	25.0	27.3
Peak Output Apparent Power [VA]	3600, 60s	4200, 60s	4800, 60s	6000, 60s	7200,60s	7200, 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				-25°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]				<25		
Ingress Protection				IP65		
Dimensions [H*W*D] [mm]				385.5*499*193.5		
Weight [kg]				17.6		
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		

Remarks: *1 According to VDE-ARN-N 4105, Rated AC Current for H2-5K-S2 is 20A.