H2 3-6K Single Phase Hybrid Inverter

SAJ's hybrid inverter supported easy setting of smart working modes, UPS 10ms swtich 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 ≤ 10ms

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

MODEL	H2-3K-S2	H2-3.6K-S2	H2-4K-S2	H2-5K-S2	H2-6K-S2
DC Input					
Max. PV Array Power [Wp]@STC	4500	5400	6000	7500	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	6000
Max. Apparent Power [VA]	3300	3680	4400	5500	6000
Rated Output Current [A]@230Vac	13.0	16.0	17.4	21.7 *1	26.1
Max. Output Current [A]	15.0	16.7	20.0	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
AC Output [Back-up]					
Max. Output Power [VA]	3000	3680	4000	5000	6000
Max. Output Current [A]	13.6	16.7	18.2	22.7	27.3
Peak Output Apparent Power [VA]	3600, 60s	4200, 60s	4800, 60s	6000, 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℃ to +60℃ (45℃ to 60℃ 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]	10				
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.