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-IE | H2-6K-S2

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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℃ 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					
Protection Class	I					
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.

Manufacturer: Guangzhou Sanjing Electric Co., Ltd.
Made in China