

# H2 5-10K Single Phase Hybrid Inverter

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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
- ❑ 150% DC oversizing
- ❑ With UPS function switch time  $\leq 10\text{ms}$

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

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MODEL	H2-5K-S3	H2-6K-S3-IE	H2-6K-S3	H2-7K-S3	H2-8K-S3	H2-10K-S3
<b>DC Input</b>						
Max. PV Array Power [Wp]@STC	7500	9000	9000	10500	12000	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]	19.2/19.2/19.2					
No. of MPPT	3					
<b>Battery Parameters</b>						
Battery Type	LiFePO4					
Battery Voltage Range [V]	85 ~ 450					
Max. Charging/Discharging Current [A]	50/50					
<b>AC Output [On-grid]</b>						
Rated AC Power [W]	5000	5500	6000	7000	8000	10000
Max. Apparent Power [VA]	5500	5500	6600	7700	8800	10000
Rated Output Current [A]@230Vac	21.7*	25.0	26.1	30.4	34.8	43.5
Max. Output Current [A]	25.0	25.0	30.0	35.0	40.0	45.5
Current Inrush [A]	150.0					
Max. AC Fault Current [A]	120.0					
Max. AC Over Current Protection [A]	63.0	75.0	75.0	88.0	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%					
<b>AC Input [On-grid]</b>						
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240/180 ~ 280					
Rated Input Frequency [Hz]	50,60					
Max. Input Current [A]@230Vac	43.5	52.2	52.2	60.9	69.9	69.9
<b>AC Output [Back-up]</b>						
Max. Output Power [VA]	5000	5500	6000	7000	8000	10000
Max. Output Current [A]	22.7	25.0	27.3	31.8	36.4	45.5
Peak Output Apparent Power [VA]	6000,60s	7200,60s	7200,60s	8400,60s	9600,60s	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%					
<b>Efficiency</b>						
Max. Efficiency	97.6%					
Euro Efficiency	97.0%					
<b>Protection</b>						
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					
<b>Interface</b>						
PV Connection	MC4/D4					
AC Connection	Plug-in connector					
Battery Connection	Quick connector					
Display	LED+APP					
Communication	Wifi/ethernet/4G (optional)					
<b>General Parameters</b>						
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					
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					

Remarks: \*1 According to VDE-ARN-N 4105, Rated AC Current for H2-5K-S3 is 20A.