

H2 5-10K Three 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, 2MPPTs and three phase grid.



- Easy setting of smart working modes
- AFCI (optional)
- DC 15A/ string matched with ultra high PV modules
- 150% DC oversizing
- Battery fast charging/ discharging supported
- Supported 100% three phase voltage imbalance
- With UPS function switch time $\leq 10\text{ms}$
- 110% AC overloading

H2-5K-T2 | H2-6K-T2
H2-8K-T2 | H2-10K-T2 | H2-10K-T2-B

MODEL	H2-5K-T2	H2-6K-T2	H2-8K-T2	H2-10K-T2	H2-10K-T2-B
DC Input					
Max. PV Array Power [Wp]@STC	7500	9000	12000	15000	15000
Max. DC Voltage [V]			1000		
MPPT Voltage Range [V]			180~900		
Rated DC Voltage [V]			600		
Start Voltage [V]			180		
Max. DC Input Current [A]			15 / 15		
Max. DC Short Circuit Current [A]			18 / 18		
No. of MPPT			2		
Battery Parameters					
Battery Type			LiFePO4		
Battery Voltage Range [V]			180~600		
Max. Charging/Discharging Current [A]			30/30		
AC Output [On-grid]					
Rated AC Power [W]	5000	6000	8000	10000	10000
Max. Apparent Power [VA]	5500	6600	8800	11000	10000
Rated Output Current [A]@230Vac	7.2	8.7	11.6	14.5	14.5
Max. Output Current [A]	8.3	10.0	13.3	16.7	15.2
Current Inrush [A]			52.0		
Max. AC Fault Current [A]			45.0		
Max. AC Over Current Protection [A]	20.8	25.0	33.3	41.8	41.8
Rated AC Voltage/Range [V]		3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485			
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]		3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485			
Rated Input Frequency [Hz]		50,60			
Max. Input Current [A]@230Vac	8.3	10.0	13.3	16.7	15.2
AC Output [Back-up]					
Max. Output Power [VA]	5000	6000	8000	10000	10000
Max. Output Current [A]	8.0	9.6	12.8	15.9	14.5
Peak Output Apparent Power [VA]	10000, 60s	12000, 60s	16000, 60s	16500, 60s	16500,60s
Rated AC Voltage/Range [V]		3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485			
Rated Output Frequency/Range [Hz]		50,60/45 ~ 55,55 ~ 65			
Output THDv (@ Linear Load)		<3%			
Efficiency					
Max. Efficiency			98.0%		
Euro Efficiency			97.6%		
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]		<30			
Ingress Protection		IP65			
Dimensions [H*W*D] [mm]		433*549*207			
Weight [kg]		25			
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				