

H2 10-30K Three Phase Hybrid Inverter

SAJ's latest hybrid inverter supported easy setting of smart working modes, UPS 10ms switch time and 1C VPP charging/discharging speed of battery. H2 covers 10-30kW, 3MPPTs and three phase grid.



- ❑ Easy setting of smart working modes
- ❑ DC 20A string matched with ultra high PV modules
- ❑ Supported three phase voltage imbalance
- ❑ Battery fast charging/ discharging supported
- ❑ 150% DC oversizing
- ❑ With backup switch time $\leq 20\text{ms}$

H2-10K-T3 | H2-12K-T3 | H2-15K-T2
H2-15K-T3 | H2-20K-T2 | H2-20K-T3
H2-25K-T3-BE | H2-25K-T3 | H2-30K-T3-DE | H2-30K-T3

MODEL	H2-10K-T3	H2-12K-T3	H2-15K-T2	H2-15K-T3	H2-20K-T2	H2-20K-T3	H2-25K-T3-BE	H2-25K-T3	H2-30K-T3-DE	H2-30K-T3
DC Input										
Max. PV Array Power [Wp]@STC	20000	24000	30000	30000	30000	40000	45000	45000	45000	45000
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]	40/40/40		40/40	40/40/40	40/40				40/40/40	
Max. DC Short Circuit Current [A]	50/50/50		50/50	50/50/50	50/50				50/50/50	
No. of MPPT	3		2	3	2				3	
Number of String per MPPT Tracker	2/2/2		2/2	2/2/2	2/2				2/2/2	
Battery Parameters										
Battery Type						LiFePO4				
Battery Voltage Range [V]						180 ~ 800				
Max. Charging/Discharging Current [A]						50/50				
No. of BAT						2				
AC Output [On-grid]										
Rated AC Power [W]	10000	12000	15000	15000	20000	20000	25000	25000	29999	30000
Max.Apparent Power [VA]	11000	13200	16500	16500	22000	22000	25000	27500	29999	33000
Rated Output Current [A]@230Vac	14.5	17.4	21.8	21.8	29.0	29.0	36.3	36.3	43.4	43.5
Max. Output Current [A]	16	19.2	24.0	24.0	31.9	31.9	36.3	39.9	43.4	47.9
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	28.3	28.3	28.3	28.3	37.7	37.7	47.2	47.2	56.5	56.6
AC Output [Back-up]										
Max. Output Power [VA]	10000	12000	15000	15000	20000	20000	25000	25000	29999	30000
Max. Output Current [A]	14.5	17.4	21.8	21.8	29.0	29.0	36.3	36.3	43.4	43.5
Peak Output Apparent Power [VA]	15000,3S	18000,3S	22500,3s	22500,3s	30000,3s	30000,3s	37500,3s	37500,3s	45000,3S	45000,3s
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						Type II				
AC Surge Protection						Type II				
Anti-islanding Protection						Integrated				
AFCI Protection						Integrated				
Interface										
PV Connection						MC4				
AC Connection						Terminal Block				
AC Connection						Quick connector				
Display						LED+APP				
Communication						Wi-Fi/Ethernet/4G(Optional)				
General Parameters										
Topology						Non-isolated				
Operating Temperature Range						-40°C to +60°C (45°C and above with derating)				
Cooling Method						Intelligent Fan cooling				
Ambient Humidity						0-100% Non-condensing				
Altitude						4000m (>3000m Power Derating)				
Noise [dBA]						<50				
Ingress Protection						IP65				
Dimensions [H*W*D] [mm]						576*659*242				
Weight [kg]						50				
Warranty [Year]						5/10/15				
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									