H2 10-30K Three Phase Hybrid Inverter

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

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

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SAJ

Manufacturer: SAJ

MODEL	H2-10K-T3-AU	H2-12K-T3-AU	H2-15K-T2-AU	H2-15K-T3-AU	H2-20K-T2-AU	H2-20K-T3-AU	H2-25K-T3-AU	H2-30K-T3-AU
DC Input								
Max. PV Array Power [Wp]@STC	20000	24000	30000	30000	30000	40000	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	
Over voltage Category (OVC)	II							
Battery Parameters								
Battery Type	LiFePO4							
Battery Voltage Range [V]	180 ~ 800							
Max. Charging/Discharging Current [A]	50/50							
No. of BAT	2							
Over voltage Category (OVC)	II							
AC Output [On-grid]								
Rated AC Power [W]	9999	12000	15000	15000	20000	20000	25000	29999
Max. Apparent Power [VA]	9999	13200	16500	16500	22000	22000	27500	29999
Rated Output Current [A]@230Vac	14.5	17.4	21.8	21.8	29.0	29.0	36.3	43.4
Max. Output Current [A]	14.5	19.2	24.0	24.0	31.9	31.9	39.9	43.4
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%							
Over voltage Category (OVC)	III							
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	56.5
Over voltage Category (OVC)	III							
AC Output [Back-up]								
Max. Output Power [VA]	10000	12000	15000	15000	20000	20000	25000	30000
Max. Output Current [A]	14.5	17.4	21.8	21.8	29.0	29.0	36.3	43.4
Peak Output Apparent Power [VA]	15000,3S	18000,3S	22500,3s	22500,3s	30000,3s	30000,3s	37500,3s	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%							
Over voltage Category (OVC)	III							
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	AFD							
AFCI Protection	Integrated							
Interface								
PV Connection	MC4: PV-ADSP4-S2-UR/6 and PV-ADBP4-S2-UR/6							
AC Connection	Terminal Block							
Battery Connection	Quick connector							
Display	LED+APP							
Communication	Wi-Fi, Ethernet, 4G (optional)							
General Parameters								
Topology	Non-isolated							
Operating Temperature Range	-40℃ to +60℃ (45℃ 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]	Refer to the warranty policy							
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							