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RESIDENTIAL ENERGY STORAGE SOLUTIONS

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Products are continuously updated and parameters are just for reference.
Made in China. Manufacturer: SAJ

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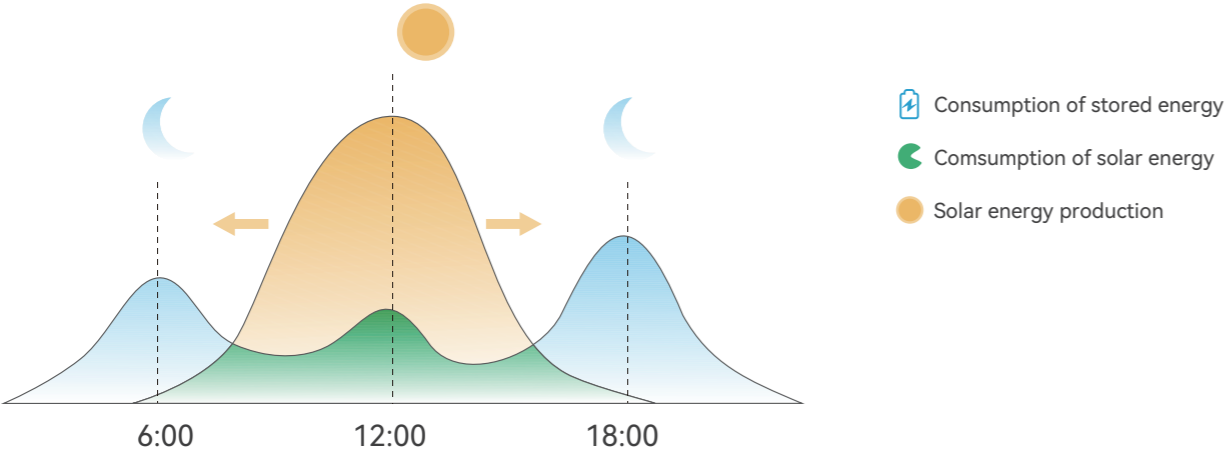
24H POWERING YOUR HOME

SAJ energy storage systems provide customers with smart energy solutions, which considerably enhance power independence and provide more flexibility in residential energy management.

With UPS function, SAJ solar storage products guarantee an uninterrupted power supply at your home even when grid fails.

SAVING BILLS VIA PEAK LOAD SHIFTING

Based on different rates of grid power, customers can set up the charging and discharging time of battery to reduce electricity bills. Battery can be charged from the grid at low grid price rates and be discharged to supply loads when the power price is expensive.



GUARANTEE YOUR POWER SUPPLY WITH BACKUP POWER



Under backup mode, the electricity stored in battery can be saved for powering essential appliances when the grid fails. When power outage occurs, the backup mode can be switched ON automatically within 10 milliseconds.

SMART HOME & ENERGY MANAGEMENT

eSAJ Portal (eSAJ Web & eSAJ APP) is a cloud based platform developed and maintained by SAJ team, the platform furnishes with data monitoring, remote maintenance and energy management. eSAJ Portal brings all the energy into visualization for an easy maintenance anytime, anywhere.



STORAGE SOLUTIONS FOR YOUR HOME

Enjoy Your Energy Independence & Sustainability

Hybrid Solar System Working Modes

1 Self-consumption mode

Throughout the day, the power generated by the PV system will supply household loads first, and then saving surplus energy to battery that can be used anytime. The excess electricity can be exported to the grid.

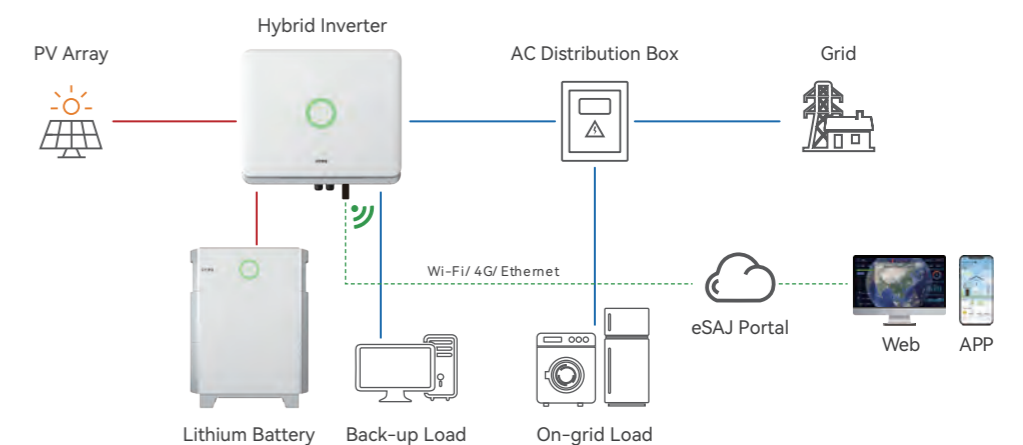
2 Time-of-use mode

Battery charging and discharging time can be flexibly set based on your need. It is widely used when there is a peak and valley tariffs to minimize the electricity bills.

3 Backup mode

Backup mode is able to maintain the battery in a charged state. When a power outage happens, the battery discharges to power the backup loads.

Hybrid inverter can significantly improve the self-consumption rate of solar energy and lower the dependency on the grid.




H2 SERIES

SINGLE PHASE




H2-3K-S2 | H2-3.6K-S2 | H2-4K-S2
H2-5K-S2 | H2-6K-S2-IE | H2-6K-S2

 Easy setting of smart working modes

AFCI AFCI (optional)

16A DC 16A/ string matched with ultra high PV modules

 Battery fast charging/ discharging supported

150% 150% DC oversizing

UPS With UPS function switch time ≤ 10ms

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*1 [VA]	3300	3680	4400	5500	5500	6000
Rated Output Current [A]@230Vac	13.0	16.0	17.4	21.7*2	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/H4					
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]	<25					
Ingress Protection	IP65					
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 0-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1					

Remarks: *1 According to C10/C11, Max. Apparent Power= Rated AC Power. *2 According to VDE-ARN-N 4105, Rated AC Current for H2-5K-S2 is 20A.

H2 SERIES

SINGLE PHASE



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



Easy setting of smart working modes

AFCI AFCI (optional)

16A DC 16A/ string matched with ultra high PV modules



Max. 3 MPPT trackers

150% 150% DC oversizing

UPS With UPS function switch time ≤ 10ms

MODEL	H2-5K-S3	H2-6K-S3-IE	H2-6K-S3	H2-7K-S3	H2-8K-S3	H2-10K-S3
DC Input						
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					
Battery Parameters						
Battery Type	LiFePO4					
Battery Voltage Range[V]	85 ~ 450					
Max. Charging/Discharging Current [A]	50/50					
AC Output [On-grid]						
Rated AC Power [W]	5000	5500	6000	7000	8000	10000
Max. Apparent Power*1 [VA]	5500	5500	6600	7700	8800	10000
Rated Output Current [A]@230Vac	21.7*2	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%					
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	43.5	52.2	52.2	60.9	69.9	69.9
AC Output [Back-up]						
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%					
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/H4					
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	-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 O-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1					


Remarks: *1 According to C10/C11, Max. Apparent Power= Rated AC Power. *2 According to VDE-ARN-N 4105, Rated AC Current for H2-5K-S3 is 20A.

H2 SERIES

THREE PHASE




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

 Easy setting of smart working modes

AFCI AFCI (optional)

15A DC 15A/ string matched with ultra high PV modules

150% 150% DC oversizing

 Battery fast charging/ discharging supported

100% Supported 100% three phase voltage imbalance

UPS With UPS function switch time ≤ 10ms

110% 110% AC overloading

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*1 [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/H4				
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 O-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1				

Remarks: *1 According to C10/C11, Max. Apparent Power= Rated AC Power.