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RESIDENTIAL ENERGY STORAGE SOLUTIONS



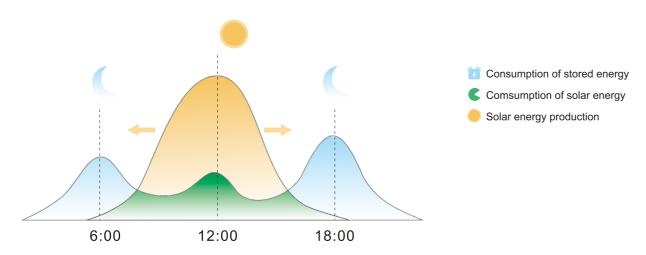
24H POWERING YOUR HOME

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

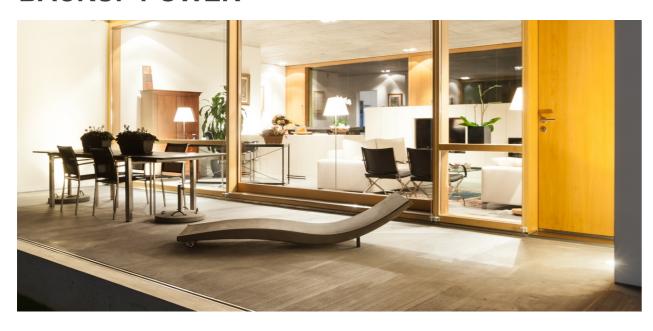
With UPS function, SAJ solar storage products guarantee an uninterrupted power supply at your home even when grid fails.

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

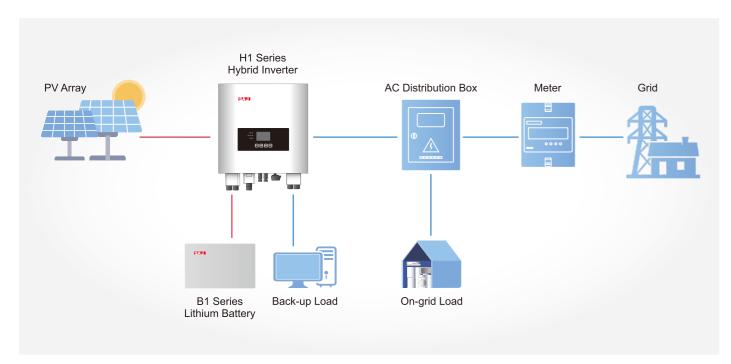
eSolar Portal (eSolar Web & eSolar APP) is a cloud based platform developed and maintained by SAJ team, the platform furnishes with data monitoring, remote maintenance and energy management. eSolar Portal brings all the energy into visualization for an easy maintenance anytime, anywhere.





H1 Hybrid Solar System Diagram

H1 inverter can significantly improve the self-consumption rate of solar energy and lower the dependency on the grid. The energy generated by PV system will be fed to loads first, and then the surplus energy can charge the battery for later use, if there is still more excess energy, it will be exported to the grid.



H1 Working Modes

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.



Time-of-use mode

Battery charging and discharging time can be flexibly set based on your local peak and off-peak electricity period to minimize the electricity bills.



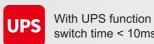
Backup mode

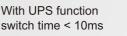
Backup mode is able to maintain the battery in a charged state. When a power outage happens, the battery discharges to power the backup loads.



H1-3K/3.6K/4K/4.6K/5K/6K-\$2; H1-4.6K/5K/6K-L\$2











24H energy monitoring and management



Easy settings of smart working modes



Max. 100A charge current



Fanless design quiet and comfortable

H1-3K/3.6K/4K/4.6K/5K/6K-S2 Datasheet

Model	H1-3K-S2	H1-3.6K-S2	H1-4K-S2	H1-4.6K-S2	H1-5K-S2	H1-6K-S2
Input DC						
Max. PV Array Power [Wp] @STC	4500	5400	6000	6900	7500	9000
Max. DC Voltage [V]	600					
MPPT Voltage Range [V]	90-550					
Nominal DC Voltage [V]	360					
Start Voltage [V]	120					
Min. DC Voltage [V]				80		
Max. DC Input Current [A]			12.	5/12.5		
Max. DC Short Circuit Current [A]			1!	5/15		
Number of MPPT				2		
DC Switch			Inte	grated		
Battery Parameters						
Battery Type			Lithiur	n battery		
Rated Input Voltage/Voltage Range [V]			48/4	2~58.5		
Max/Rated Charging Current [A]		60/60			100/100	
Charging Mode Control	3-stages					
Grid Parameters						
Rated Output Power [W]	3000	3680	4000	4600	5000*1	6000
Max.Output Power [VA]	3000	3680	4000	4600	5000	6000
Rated Output Current [A]	13.1	16.0	17.4	20.0	21.8*2	26.1
Max. Output Current [A]	13.6	16.7	18.2	20.9	22.7	27.3
Rated Grid Voltage/Range [V]	15.0	10.7			22.7	27.5
Rated Grid Frequency/Range [Hz]	220,230,240/180~280					
Power Factor [cos φ]	50,60/±5					
Total Harmonic Distortion [THDi]	0.8 leading~0.8 lagging					
Feed-in	< 3% L+N+PE					
			L+	N+PE		
AC Output [Back-up Mode]		2000		4600	_	000
Max. Output Power [VA]		3000		4600		000
Peak Output Apparent Power [VA]	3600, 10sec 5500, 10sec 6000, 10sec), 10sec		
Output Voltage [V]				230/240		
Output Frequency [Hz]	50/60					
Total Harmonic Distortion of Voltage			<	:3%		
Efficiency						
Max. Efficiency	97.6%					
Euro Efficiency	97.0%					
Max. Battery to Load Efficiency			94	1.6%		
Protection						
AC Short-circuit Protection			Inte	grated		
Overload Protection	Integrated					
DC Overvoltage/Undervoltage Protection	Integrated					
AC Overvoltage/Undervoltage Protection	Integrated					
AC Overfrequency/Underfrequency	Integrated					
Peak-to-trough Period Setting	Integrated					
Interface						
PV Input			N	/IC4		
Battery	Terminal block					
Display	LCD					
Communication	Wi-Fi/ GPRS/ Ethernet (Optional)					
General Data			, ,	,		
Operating Temperature Range			-25°C	to +60°C		
Cooling Method	Natural convection					
Ambient Humidity	0-100% non-condensing					
Altitude	<u> </u>					
Noise [dBA]	4000m (>3000m power derating)					
Ingress Protection	< 29					
ŭ	IP65					
Dimensions [H*W*D] [mm]	470*470*190					
Weight [kg]	23					
Standard Warranty [Year]	TECC04.00 1 15	TECC1000 0 5 10 10 11	ENIE0420	5	IC IECC1707	200 11112 22 22 2
Applicable Standard	IEC62109-1/2,			49, C10/C11, IEC6211		99, UNE 206006,
The state of the s		UNE 206007, 0	CEI 0-21, AS4777.2	2, CQC NB/T 32004, \	/DE-AR-N 4105	

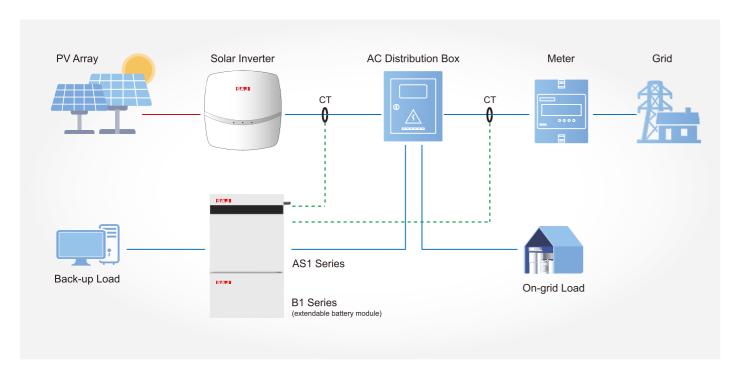
Remarks: *1 For AS/NZS 4777.2 Rated Output Power is 4999VA. *2 For AS/NZS 4777.2 Rated Output Current is 21.7A.

H1-4.6K/5K/6K-LS2 Datasheet

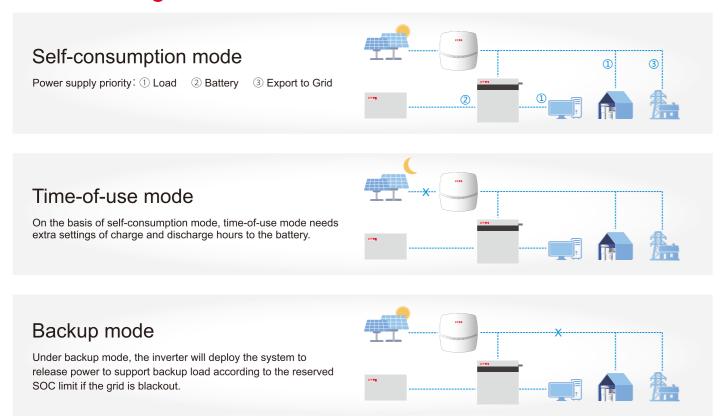
Model	H1-4.6K-LS2	H1-5K-LS2	H1-6K-LS2	
Input DC				
Max. PV Array Power [Wp] @STC	6900	7500	9000	
Max. DC Voltage [V]		600		
MPPT Voltage Range [V]		90-550		
Nominal DC Voltage [V]		360		
Start Voltage [V]		120		
Min. DC Voltage [V]		80		
Max. DC Input Current [A]		12.5/12.5		
Max. DC Short Circuit Current [A]		15/15		
Number of MPPT		2		
DC Switch		Integrated		
Battery Parameters				
Battery Type		Lithium battery		
Rated Input Voltage/Voltage Range [V]	48/42~58.5			
Max/Rated Charging Current [A]	60/60			
Charging Mode Control	3-stages			
Grid Parameters				
Rated Output Power [W]	4600	5000* ¹	6000	
Max.Output Power [VA]	4600	5000	6000	
Rated Output Current [A]	20.0	21.8*2	26.1	
Max. Output Current [A]	20.9	22.7	27.3	
Rated Grid Voltage/Range [V]	20.5	220, 230, 240/180~280	27.3	
Rated Grid Frequency/Range [Hz]		50, 60/±5		
Power Factor [cos φ]				
Total Harmonic Distortion [THDi]	0.8 leading~0.8 lagging <3%			
Feed-in	<3% L+N+PE			
AC Output [Back-up Mode]		LTINTIL		
		2000		
Max. Output Power [VA]	3000			
Peak Output Apparent Power [VA]	3600, 10sec			
Output Voltage [V]	220/230/240			
Output Frequency [Hz]	50/60			
Total Harmonic Distortion of Voltage		< 3%		
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	97.0%			
Max. Battery to Load Efficiency	94.6%			
Protection				
AC Short-circuit Protection	Integrated			
Overload Protection	Integrated			
DC Overvoltage/Undervoltage Protection	Integrated			
AC Overvoltage/Undervoltage Protection	Integrated			
AC Overfrequency/Underfrequency	Integrated			
Peak-to-trough Period Setting	Integrated			
Interface				
PV Input		MC4		
Battery	Terminal block			
Display	LCD			
Communication	Wi-Fi/ GPRS/ Ethernet (Optional)			
General Data				
Operating Temperature Range		-25°C to +60°C		
Cooling Method	Natural convection			
Ambient Humidity	0-100% non-condensing			
Altitude	4000m (>3000m power derating)			
Noise [dBA]	4000m (>3000m power derating) < 29			
Ingress Protection	< 29 IP65			
Dimensions [H*W*D] [mm]	470*470*190			
Weight [kg]	470*470*190 23			
		23 5		
Standard Warranty [Year]	IECC2100 1/2 IECC1000 C 1/2/		TCC1707 DD1C00 UNIT 200000	
Applicable Standard	UNE 20600	/3/4, EN50438, EN50549, C10/C11, IEC62116, 07, CEI 0-21, AS4777.2, CQC NB/T 32004, VDE	-AR-N 4105	

AS1 AC Retrofit Battery System

As1 series is designed to convert and upgrade the existing grid-tied PV system into a storage one. Throughout the day, the power generated by PV system will supply to household loads first, and then saving surplus energy to battery that can be used at any time, the excess electricity can be exported to the grid. Battery charging and discharging time can be flexibly set based on your local peak and off-peak electricity period to minimize the utility bills.



AS1 Working Modes





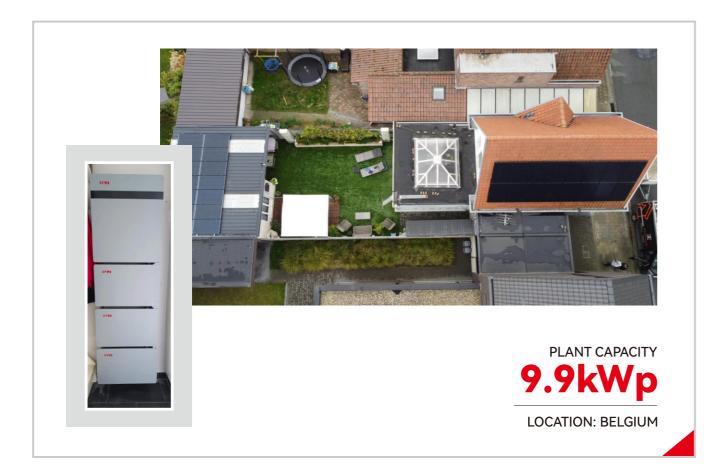
AS1-3KS-5.1 Datasheet

Model	AS1-3KS-5.1	
Battery Parameters		
Battery Type	Lithium-iron phosphate (LiFePO4)	
Total Energy Capacity [Wh]	5120	
Battery Capacity [Ah]	100	
Rated Voltage [V]	51.2	
Voltage range [V]	42~58.4	
Depth Of Discharge [DOD]	≤ 90%	
Cycle Life	≥ 6000	
Max.Charge Current [A]	60	
Max.Discharge Current [A]	60	
Scalability	Yes (up to 20.4kWh)	
Grid Parameters		
Max.Continuable Output Power [VA]	3000	
Max.Output Current [A]@230Vac	13.1	
Rated Grid, Backup Voltage/Range [V]	220, 230, 240/180~280	
Rated Grid/Backup Frequency/Range [Hz]	50, 60/±5	
Power factor [cos φ]	0.8 leading~0.8 lagging	
Feed-in	L+N+PE	
AC Output [Back-up Mode]		
Max. Continuable Output Power [VA]	3000	
Output Voltage [V]	220/230/240	
Max.Output Current [A]@230Vac	13.1	
Output Frequency [Hz]	50/60	
Peak Output Power [VA]	3600, 10sec	
General Data		
Communication	Wi-Fi/ 4G/ Ethernet (Optional)	
Operating Temperature Range	0°C~50°C	
Cooling Method	Natural Convection	
Ambient Humidity	0-95% Non-condensing	
Noise [dBA]	< 29	
Ingress Protection	IP65	
Dimensions [H*W*D][mm]	738*650*186	
Weight [kg]	64	
Standard Warranty [Year]	5 (Standard)/ 10 (Optional)	
Applicable Standard	AS 4777.2, VDE 4105, G98, C10/C11, CEI0-21, IEC62619, IEC62040, UN38.3	



Model	B1-5.1-48
Electrical Parameters	
Total Energy Capacity [Wh]	5120
Usable Capacity [Wh]	4600
Rated Voltage [V]	51.2
Voltage range [V]	42~58.4
Depth Of Discharge [DOD]	≤ 90%
Cycle Life	≥ 6000
Max.Charge Current [A]	60
Max.Discharge Current [A]	60
Physical Parameters	
Battery Type	Lithium-iron phosphate (LiFePO4)
Communication	CAN
Operating Temperature Range	0°C~50°C
Cooling Method	Natural convection
Ambient Humidity	0-95% non-condensing
Ingress Protection	IP65
Dimensions [H*W*D][mm]	410*650*186
Weight [kg]	48
Standard Warranty [Year]	5 (Standard) / 10 (Optional)
Applicable Standard	UN38.3, IEC 62619

Residential Storage Solutions









V2.9-20210915