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Products are continuously updated and parameters are just for references.

RESIDENTIAL ENERGY STORAGE SOLUTIONS

www.saj-electric.com



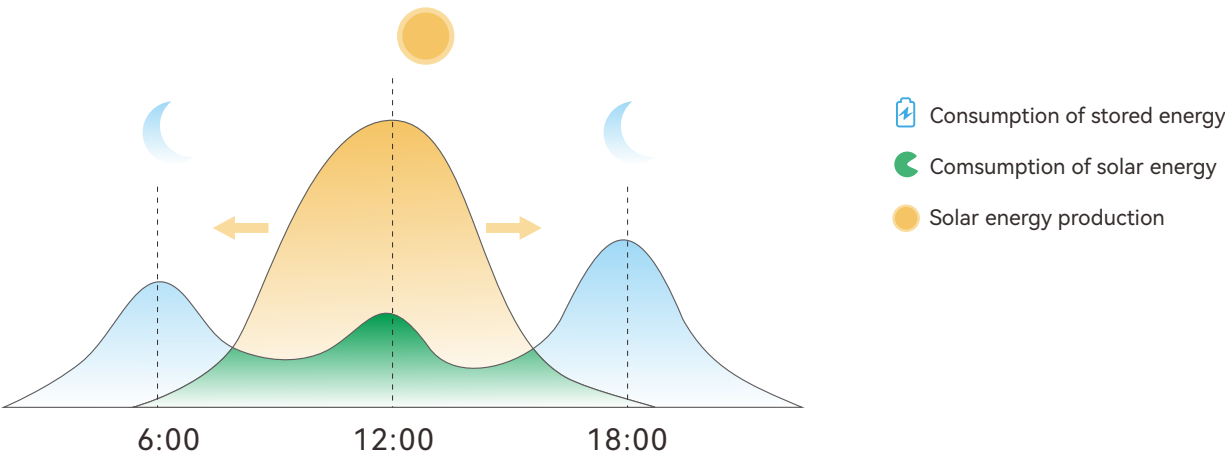
24H POWERING YOUR HOME

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.



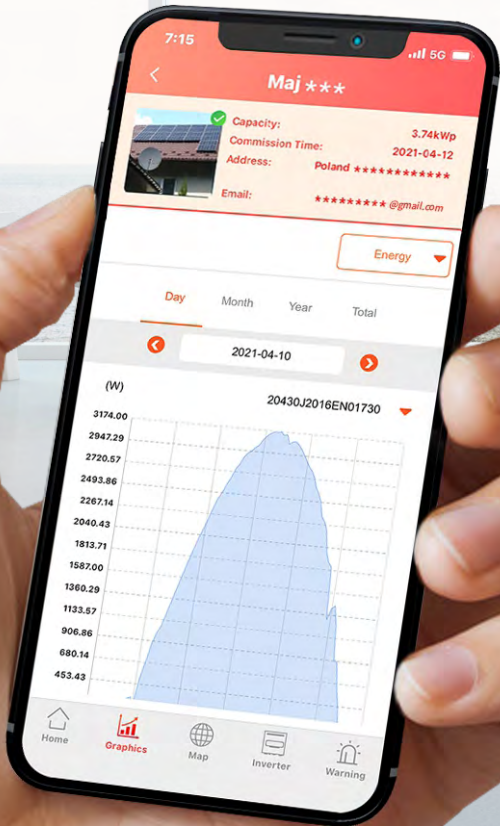
GUARANTEE YOUR POWER SUPPLY WITH BACKUP POWER



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.



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.

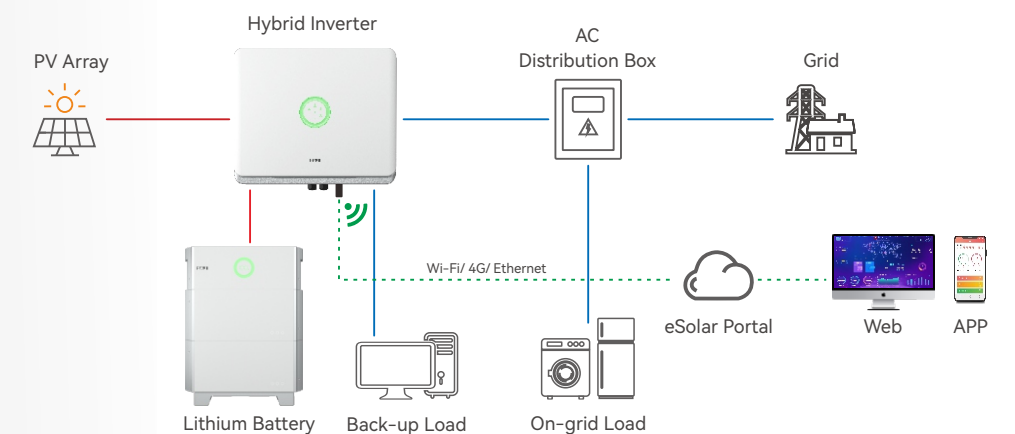
3 Backup mode

Backup mode is able to maintain the battery in a charged state. When battery discharges to

mode

to maintain the battery in a power outage happens, the 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

 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

H2-3K/ 3.6K/ 4K/ 5K/ 6K-S2

MODEL	H2-3K-S2	H2-3.6K-S2	H2-4K-S2	H2-5K-S2	H2-6K-S2
DC Input					
Max. PV Array Power [Wp]@STC	4500	5400	6000	7500	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				
No. of Strings per MPPT	1/1				
Battery Parameters					
Battery Type	Lithium battery				
Battery Voltage Range [V]	85~450				
Rated Charging/ Discharging Current [A]	30/30				
Rated Charging/ Discharging Power [W]	3000	3680	4000	5000	6000
AC Output [On-grid]					
Rated AC Power [W]	3000	3680	4000	5000	6000
Max. Apparent Power [VA]	3300	3680	4400	5500	6000
Rated AC Current [A]@230Vac	13.0	16.0	17.4	21.7	26.1
Max. AC Current [A]	15.0	16.7	20.0	25	27.3
Rated AC Voltage	L/N/PE, 220/ 230V				
Rated Output Frequency [Hz]	50/ 60 ±5				
Power Factor [cos φ]	0.8 leading~0.8 lagging				
Total Harmonic Distortion [THDi]	<3%				
AC Output [Back-up Mode]					
Rated Output Power [VA]	3000	3680	4000	5000	6000
Max. Output Current [A]	13.6	16.7	18.2	22.7	27.3
Rated Output Voltage	L/N/PE, 220/ 230V				
Rated Output Frequency [Hz]	50/ 60 ±5				
Output THDv (@ Liner Load)	<3%				
Peak Output Apparent Power [VA]	3600, 60s	4200, 60s	4800, 60s	6000, 60s	7200, 60s
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	97.0%				
Max. Battery Charging/ Discharging Efficiency	96.6%				
Protection					
AC Short Circuit Protection	Integrated				
Overload Protection	Integrated				
Residual Current Monitoring Unit	Integrated				
Battery Input Reverse Polarity Protection	Integrated				
Anti-islanding Protection	Integrated				
AC Surge Protection	Type II				
DC Surge Protection	Type II				
AFCI	Optional				
Interface					
PV Connection	MC4/H4				
Battery Connection	Quick connector				
AC Output	Plug-in connector				
Display	LED+APP (Bluetooth)				
Communication Port	CAN+RS485+DRM+CT+RS232				
Communication	Wi-Fi/ Ethernet/4G (Optional)				
General Data					
Topology	Transformerless				
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]	<25				
Ingress Protection	IP65				
Mounting	Rear panel				
Dimensions [H*W*D] [mm]	380.5*519*193.5				
Weight [kg]	18.5				
Warranty [Year]	5/10/15/20				
Applicable Standard	CEI 0-21, VDE4105-AR-N, VDE0126-1-1, EN50438, G98, G99, EN50549, AS4777.2 IEC62109-1&-2, EN61000-6-1/2/3/4				

H2

SERIES

THREE PHASE



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

 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

H2-5K/ 6K/ 8K/ 10K-T2

MODEL	H2-5K-T2	H2-6K-T2	H2-8K-T2	H2-10K-T2
DC Input				
Max. PV Array Power [Wp]@STC	7500	9000	12000	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			
No. of Strings per MPPT	1/1			
Battery Parameters				
Battery Type	Lithium battery			
Battery Voltage Range [V]	180~600			
Rated Charging/ Discharging Current [A]	30/30			
Rated Charging/ Discharging Power [W]	5000	6000	8000	10000
AC Output [On-grid]				
Rated AC Power [W]	5000	6000	8000	10000
Max. Apparent Power [VA]	5500	6600	8800	11000
Rated AC Current [A]@230Vac	7.2	8.7	11.6	14.5
Max. AC Current [A]	8.3	10.0	13.3	16.7
Rated AC Voltage	220/ 380V, 230/ 400V, 3L/ N/ PE			
Rated Output Frequency [Hz]	50/ 60 ±5			
Power Factor [cos φ]	0.8 leading~0.8 lagging			
Total Harmonic Distortion [THDi]	<3%			
AC Output [Back-up Mode]				
Rated Output Power [VA]	5000	6000	8000	10000
Max. Output Current [A]	8.0	9.6	12.8	15.9
Rated Output Voltage	220/ 380V, 230/ 400V, 3L/ N/ PE			
Rated Output Frequency [Hz]	50/ 60 ±5			
Output THDv (@ Liner Load)	<3%			
Peak Output Apparent Power [VA]	10000, 60s	12000, 60s	16000, 60s	16500, 60s
Efficiency				
Max. Efficiency	98.0%			
Euro Efficiency	97.6%			
Max. Battery Charging/ Discharging Efficiency	97.6%			
Protection				
AC Short Circuit Protection	Integrated			
Overload Protection	Integrated			
Residual Current Monitoring Unit	Integrated			
Battery Input Reverse Polarity Protection	Integrated			
Anti-islanding Protection	Integrated			
AC Surge Protection	Type III			
DC Surge Protection	Type III			
AFCI	Optional			
Interface				
PV Connection	MC4			
Battery Connection	Quick connector			
AC Output	Plug-in connector			
Display	LED+APP			
Communication Port	CAN/ RS485/ DRM/ RS232			
Communication	Wi-Fi/ Ethernet/4G (Optional)			
General Data				
Topology	Transformerless			
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]	<30			
Ingress Protection	IP65			
Mounting	Rear panel			
Dimensions [H*W*D] [mm]	433*549*207			
Weight [kg]	25			
Warranty [Year]	5/10/15/20			
Applicable Standard	CEI 0-21, VDE4105-AR-N, VDE0126-1-1, EN50438, G98, G99, EN50549, AS4777.2 IEC62109-1&-2, EN61000-6-1/2/3/4			

B2

SERIES
LITHIUM BATTERY



B2-5.1-HV1 | B2-10.2-HV1 | B2-15.3-HV1
B2-20.4-HV1 | B2-25.6-HV1
B2-4.8-HV1 | B2-9.6-HV1 | B2-14.4-HV1
B2-19.2-HV1 | B2-24.0-HV1



Flexible capacity options
5.1kWh to 25.6kWh

LFP

Excellent safety of cobalt
free LiFePO4 battery



Remote firmware upgrade



Easy installation with modular
and stacked design

B2-5.1/ 10.2/ 15.3/ 20.4/ 25.6-HV1

MODEL	B2-5.1-HV1	B2-10.2-HV1	B2-15.3-HV1	B2-20.4-HV1	B2-25.6-HV1
Battery Module	BU2-5.12-HV1 (32S1P 102.4V50Ah)				
No. of Modules	1	2	3	4	5
Rated Energy [kWh]	5.12	10.24	15.36	20.48	25.6
Usable Energy [kWh]	4.6	9.2	13.8	18.4	23
Dimension [H*W*D][mm]	261*626*365	522*626*365	783*626*365	1044*626*365	1305*626*365
Weight [kg]	50.5	101	151.5	202	252.5
Nominal Voltage [V]	102.4	204.8	307.2	409.6	512
Operating Voltage [V]	89.6-115.2	179.2-230.4	268.8-345.6	358.4-460.8	448-576.0
Max. Charge Current [A]	30				
Max. Discharge Current [A]	30				
Control Module	BC2-HV1				
Dimension [H*W*D][mm]	200*626*365				
Weight [kg]	11				
General Data					
Ingress Protection	IP65				
Mounting	Wall-Mounted / Ground-Mounted				
Operating Temperature Range	Charging: 0-50°C; Discharging: -10-50°C				
Ambient Humidity	0-95% non-condensing				
Cooling Method	Natural convection				
Communication	CAN				
Warranty [Year]	5/10				
Applicable Standard	IEC62619(Cell&Pack)/ CEC/ CE/ ROHS/ UN38.3				

B2-4.8/ 9.6/ 14.4/ 19.2/ 24.0-HV1

MODEL	B2-4.8-HV1	B2-9.6-HV1	B2-14.4-HV1	B2-19.2-HV1	B2-24.0-HV1
Battery Module	BU2-4.8-HV1 (30S1P 96V 50Ah)				
No. of Modules	1	2	3	4	5
Rated Energy [kWh]	4.8	9.6	14.4	19.2	24.0
Usable Energy [kWh]	4.32	8.64	12.96	17.28	21.60
Dimension [H*W*D][mm]	261*626*365	522*626*365	783*626*365	1044*626*365	1305*626*365
Weight [kg]	48.3	96.6	144.9	193.2	241.5
Nominal Voltage [V]	96	192	288	384	480
Operating Voltage [V]	84~108	168~216	252~324	336~432	420~540
Max. Charge Current [A]	30				
Max. Discharge Current [A]	30				
Control Module	BC2-HV1				
Dimension [H*W*D][mm]	200*626*365				
Weight [kg]	11				
General Data					
Ingress Protection	IP65				
Mounting	Wall-Mounted / Ground-Mounted				
Operating Temperature Range	Charging: 0-50°C; Discharging: -10-50°C				
Ambient Humidity	0-95% non-condensing				
Cooling Method	Natural convection				
Communication	CAN				
Warranty [Year]	5/10				
Applicable Standard	IEC62619(Cell&Pack)/ CEC/ CE/ ROHS/ UN38.3				

H1

SERIES

SINGLE PHASE



H1-3K-S2 | H1-3.6K-S2 | H1-4K-S2
H1-4.6K-S2 | H1-5K-S2 | H1-6K-S2

UPS With UPS function
switch time ≤ 10ms

 Fanless design
quiet and comfortable

 Zero export function
supported

100A Max. 100A
charge current

24h 24H energy monitoring
and management

 Easy setting of
smart working modes

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

MODEL	H1-3K-S2	H1-3.6K-S2	H1-4K-S2	H1-4.6K-S2	H1-5K-S2	H1-6K-S2
DC Input						
Max. PV Array Power [Wp] @STC	4500	5400	6000	6900	7500	9000
Max. DC Voltage [V]	600					
MPPT Voltage Range [V]	90~550					
Rated 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					
No. of MPPT	2					
DC Switch	Integrated					
Battery Parameters						
Battery Type	Lithium battery					
Rated Input Voltage/Voltage Range [V]	48/42~58.5					
Rated Charging/ Discharging Current [A]	60/60			100/100		
Charging Mode Control	3-stages					
AC Output [On-grid]						
Rated AC Power [W]	3000	3680	4000	4600	5000 ^{*1}	6000
Max. Apparent Power [VA]	3000	3680	4000	4600	5000	6000
Rated AC Current [A]@230Vac	13.1	16.0	17.4	20.0	21.8 ^{*2}	26.1
Max. AC Current [A]	13.6	16.7	18.2	20.9	22.7	27.3
Rated Grid Voltage/Range [V]	220, 230, 240/180~280					
Rated Output Frequency [Hz]	50/ 60 ±5					
Power Factor [cos φ]	0.8 leading~0.8 lagging					
Total Harmonic Distortion [THDI]	< 3%					
Feed-in	L+N+PE					
AC Output [Back-up Mode]						
Rated Output Power [VA]	3000			4600	5000	
Peak Output Apparent Power [VA]	3600, 10s			5500, 10s	6000, 10s	
Output Voltage [V]	220/230/240					
Rated Output Frequency [Hz]	50/ 60 ±5					
Output THDv (@ Liner Load)	<3%					
Efficiency						
Max. Efficiency	97.6%					
Euro Efficiency	97.0%					
Max. Battery Charging 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 Connection	MC4					
Battery Connection	Terminal block					
Display	LCD					
Communication	Wi-Fi/ Ethernet/4G (Optional)					
General Data						
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]	< 29					
Ingress Protection	IP65					
Dimensions [H*W*D] [mm]	470*470*190					
Weight [kg]	23					
Warranty [Year]	5/10/15/20					
Applicable Standard	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, EN50549, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, AS4777.2, CQC NB/T 32004, VDE-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

SERIES

SINGLE PHASE



H1-4.6K-LS2 | H1-5K-LS2 | H1-6K-LS2

UPS With UPS function
switch time ≤ 10ms

 Fanless design
quiet and comfortable

 Zero export function
supported

60A Max. 60A
charge current

 24H energy monitoring
and management

 Easy setting of
smart working modes

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

MODEL	H1-4.6K-LS2	H1-5K-LS2	H1-6K-LS2
DC Input			
Max. PV Array Power [Wp] @STC	6900	7500	9000
Max. DC Voltage [V]	600		
MPPT Voltage Range [V]	90~550		
Rated 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		
No. of MPPT	2		
DC Switch	Integrated		
Battery Parameters			
Battery Type	Lithium battery		
Rated Input Voltage/Voltage Range [V]	48/42~58.5		
Rated Charging/ Discharging Current [A]	60/60		
Charging Mode Control	3-stages		
AC Output [On-grid]			
Rated AC Power [W]	4600	5000* ¹	6000
Max. Apparent Power [VA]	4600	5000	6000
Rated AC Current [A]@230Vac	20.0	21.8* ²	26.1
Max. AC Current [A]	20.9	22.7	27.3
Rated Grid Voltage/Range [V]	220, 230, 240/180~280		
Rated Output Frequency [Hz]	50/ 60 ±5		
Power Factor [cos φ]	0.8 leading~0.8 lagging		
Total Harmonic Distortion [THDi]	< 3%		
Feed-in	L+N+PE		
AC Output [Back-up Mode]			
Rated Output Power [VA]	3000		
Peak Output Apparent Power [VA]	3600, 10s		
Output Voltage [V]	220/230/240		
Rated Output Frequency [Hz]	50/ 60 ±5		
Output THDv (@ Liner Load)	< 3%		
Efficiency			
Max. Efficiency	97.6%		
Euro Efficiency	97.0%		
Max. Battery Charging 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 Connection	MC4		
Battery Connection	Terminal block		
Display	LCD		
Communication	Wi-Fi/ Ethernet/4G (Optional)		
General Data			
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]	< 29		
Ingress Protection	IP65		
Dimensions [H*W*D] [mm]	470*470*190		
Weight [kg]	23		
Warranty [Year]	5/10/15/20		
Applicable Standard	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, EN50549, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, AS4777.2, CQC NB/T 32004, VDE-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.



B1 SERIES LITHIUM BATTERY



B1-5.1-48



Modular Design



Excellent Protection



Easy Installation



Safest Chemistry



Long Lifespan

B1-5.1-48

MODEL	B1-5.1-48
Electrical Parameters	
Total Energy Capacity [kWh]	5.12
Usable Capacity [kWh]	4.6
Rated Voltage [V]	51.2
Voltage Range [V]	42~58.4
Depth Of Discharge [DOD]	≤ 90%
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
Warranty [Year]	5/10
Applicable Standard	UN38.3, IEC 62619

Residential Energy Storage System



AS1 AC RETROFIT STORAGE SYSTEM

Adapt the existing on-grid solar system to an energy storage one



AC Retrofit Battery System Working Modes

1 Self-consumption mode

Under self-consumption mode, the inverter is capable of powering loads first and saving surplus energy from photovoltaic system to battery and can be called on at any time. the excess energy can be exported to 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

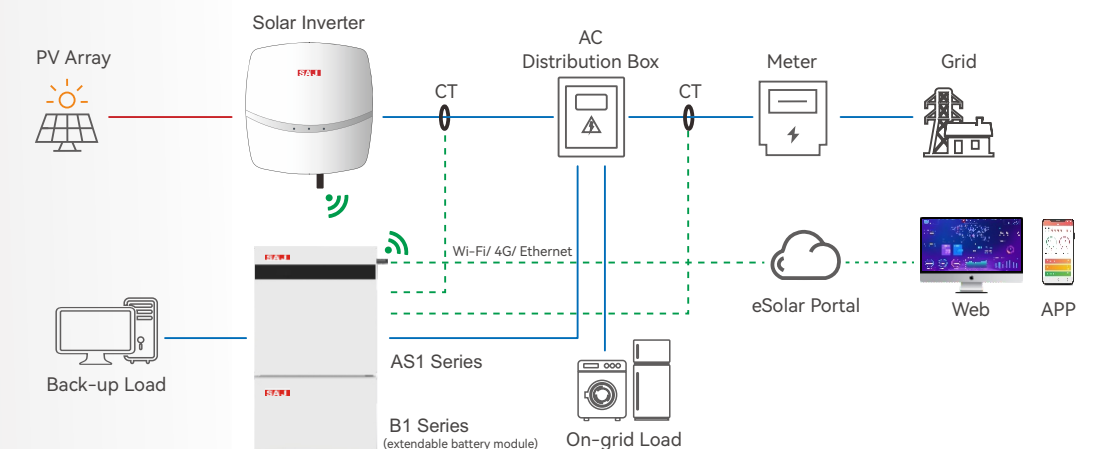
Under backup mode, the system will release load according to the grid is blackout.

AS1 series is an AC retrofit storage system consisting of a 3kW AC inverter and a 5.12kWh battery. It provides users with great flexibility to upgrade systems to energy storage systems. It helps users to increase energy independence and effectively helps them to save on electricity bills through

mode

the inverter will deploy power to support backup reserved SOC limit if the

existing grid-connected PV smart working modes.



AS1

SERIES

AC-COUPLED RETROFIT INVERTER



AS1-3KS-5.1

- 

Flexibility in retrofitting the existing system
- 

Compatible with all inverter brands
- 

With UPS function switch time ≤ 10ms
- 

Built-in 5.1kWh lithium battery (extendable)
- 

Fanless design quiet and comfortable
- 

Easy setting of smart working modes

AS1-3KS-5.1

MODEL	AS1-3KS-5.1
Battery Parameters	
Battery Type	Lithium-iron phosphate (LiFePO4)
Total Energy Capacity [kWh]	5.12
Battery Capacity [Ah]	100
Rated Voltage [V]	51.2
Voltage Range [V]	42~58.4
Depth Of Discharge [DOD]	90% (off-grid)
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 Voltage/Range [V]	220, 230, 240/180~280
Rated Output Frequency [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
Rated Output Frequency [Hz]	50/ 60 ±5
Peak Output Apparent Power [VA]	3600, 10s
General Data	
Communication	Wi-Fi/ Ethernet/4G (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
Warranty [Year]	5/10/15/20
Applicable Standard	AS 4777.2, VDE 4105, G98, C10/C11, CEI0-21, IEC62619, IEC62040, UN38.3