



RESIDENTIAL SMART SOLAR ENERGY STORAGE PRODUCTS AND SOLUTIONS

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Digital brochure

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Company Culture



Vision

Becoming a Global Leader in Smart Energy Storage

Mission

Creating a Green Environment for a Fulfilling Life Together

Values

Customer Oriented
Strive for Excellence

Initiative & Innovative
Open & Inclusive



Company Profile



SAJ was established in 2005, focusing on providing users with safer, more efficient, and more profitable full-scene smart energy storage solutions that integrate power generation, energy storage, power consumption, and energy operation services, as well as industrial automation products and solutions. Through our advanced battery management, energy conversion, energy storage equipment integration, smart energy storage management, and smart energy storage operation, we achieve the goal of growing the energy storage value. We serve partners and end-users who value professional brands and smart energy management, and are committed to becoming a global leader in smart energy storage.

21 Years
Established in 2005

1200+
Global Employees

25%+
R&D Professionals^①

290+
Patents & Software Publications

4
R&D & Manufacturing Centers

85+
Export Countries and Regions

9GW
Production Capacity (Inverters/Year)

520,000 Sets
Production Capacity (Sets of VFD/Year)

① Data as of December 2024

eleX Home

The Fully-Automated Smart Energy System



eleX Home, a revolutionary smart home energy system that redefines residential energy management as the fully-automated solution. This system seamlessly integrates a range of essential components including the All-in-One Energy Storage Solution, Home Wallbox, Energy Management System Module, Automatic Transfer Switch (ATS) Panel, Smart Wi-Fi Plug, and elekeeper EMS. This comprehensive integration creates a cohesive ecosystem that works in harmony to optimize home energy usage and efficiency.

Core Values

AI Savings
on Energy Bills

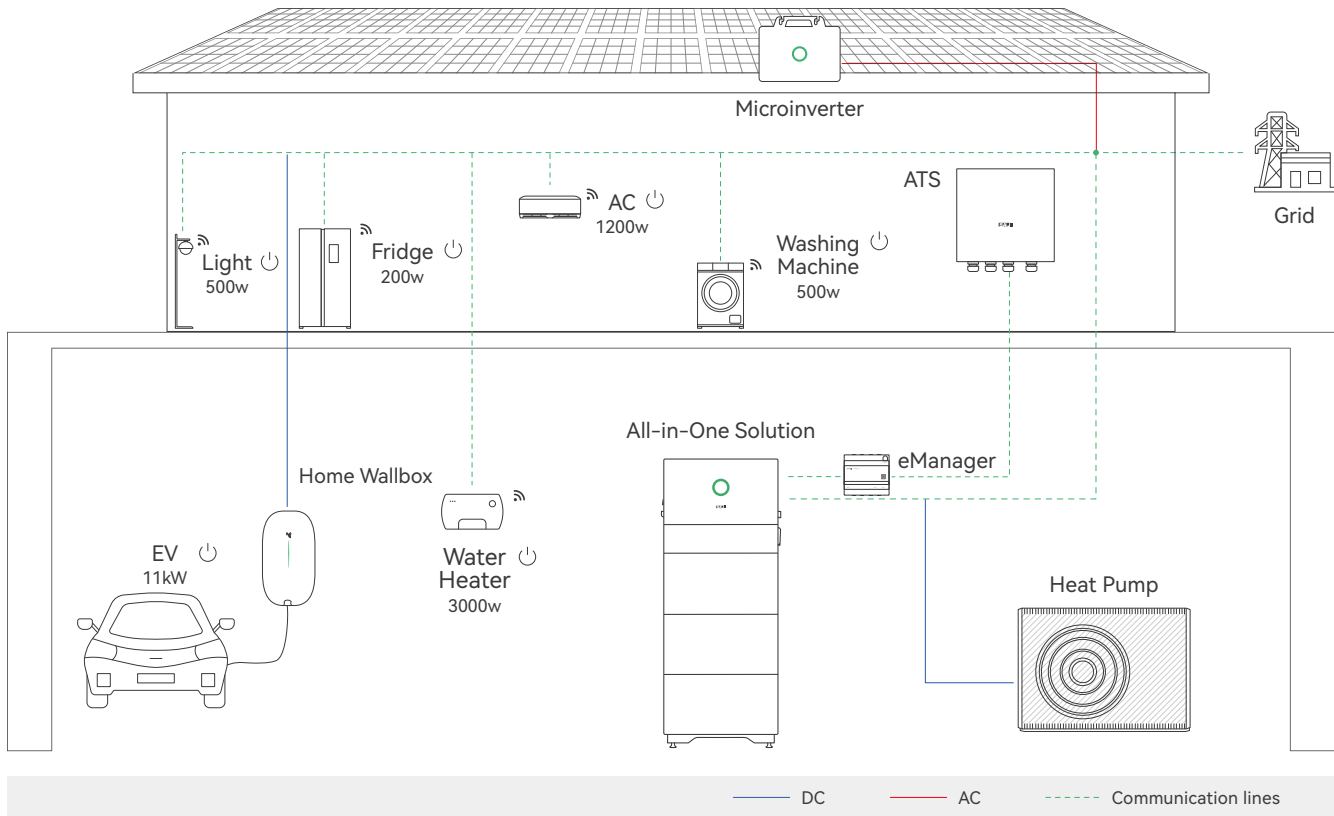
1

Earn from Energy
Dispatch & Trading

2

Backup Power
24/7

3



Products

All-in-One Energy Storage Solutions

HS3 Series

HS2 Series

Hybrid Inverters

H2 Series

Batteries

B2 Series

Microinverters

M2 Series

On-grid Inverters

R6 Series

Smart Accessories

Caro Series
Home Wallbox

eManager

ATS

Smart Wi-Fi Plug

Smart Energy Management System

elekeeper

eleX Home Lower Energy Bills Solution



Leveraging insights from your usage patterns, weather forecasts, and utility rate estimations, eleX Home has the capability to autonomously make informed choices that result in significant electricity cost reductions. This AI-optimized system guarantees Cost-saving energy dispatch, streamlining the management of home energy consumption without adding complexity for homeowners.

Core Values



One-stop Energy Saving

1



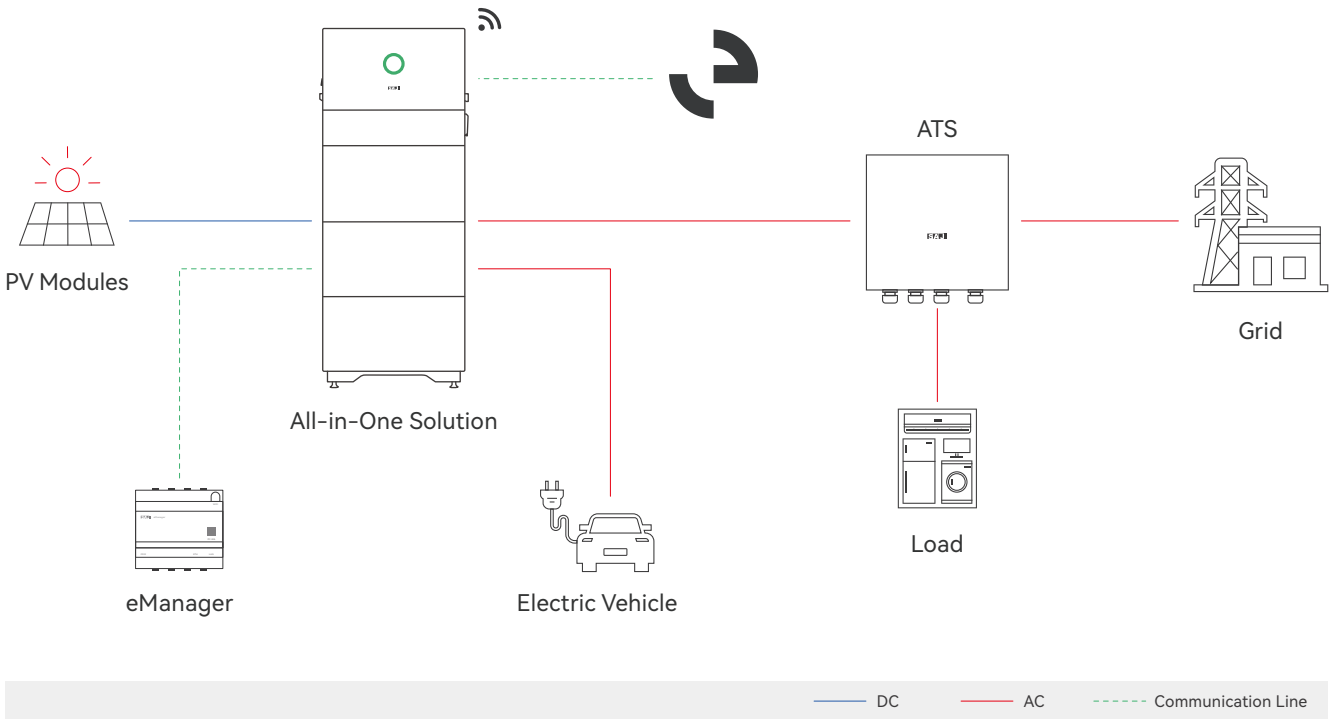
Seamless Integration

2



Smart Energy Scheduling & Dispatch

3



Products

All-in-One Energy Storage Solutions



HS3 Series



HS2 Series



H2 Series



B2 Series



M2 Series

On-grid Inverters



R6 Series



Caro Series Home Wallbox



eManager



ATS



Smart Wi-Fi Plug



elekeeper

05/06

eleX Home Earnings with Dynamic Tariff & VPP Solution



Collaborating with digital energy companies that provide dynamic electricity tariffs, eleX Home optimizes home energy usage to ensure you benefit from the lowest rates possible. This system can also connect with VPP operators to earn money by energy trading, enhancing homeowners' returns on energy investment.

Core Values

Avoid Electricity Peak Pricing

1

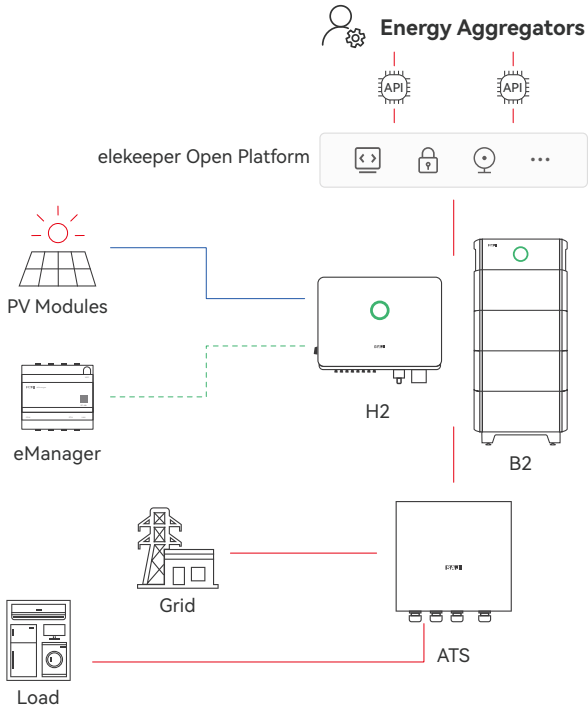
Energy Trading

2

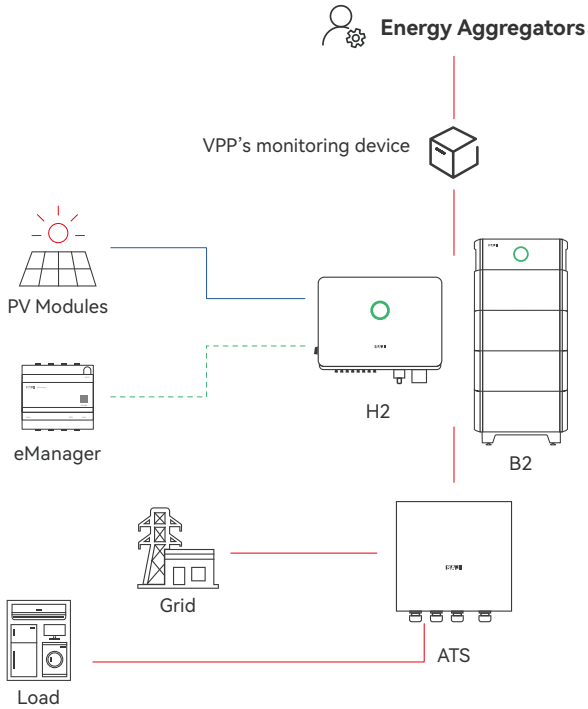
Solar Surplus Mode

3

Cloud-to-Cloud Integration



Hardware Integration



Products

All-in-One Energy Storage Solutions

HS3 Series

HS2 Series

Hybrid Inverters

H2 Series

Batteries

B2 Series

Smart Accessories

Caro Series Home Wallbox

eManager

ATS

Smart Wi-Fi Plug

Smart Energy Management System

elekeeper

eleX Home Whole-house Backup Power Solution



eleX Home – the ultimate energy source for the most reliable power solutions. It incorporates cutting-edge BACKUP technologies to ensure uninterrupted power for essential devices, offering homeowners peace of mind during power outages. Always keep your home powered and connected.

Core Values

Seamless Auto-switchover

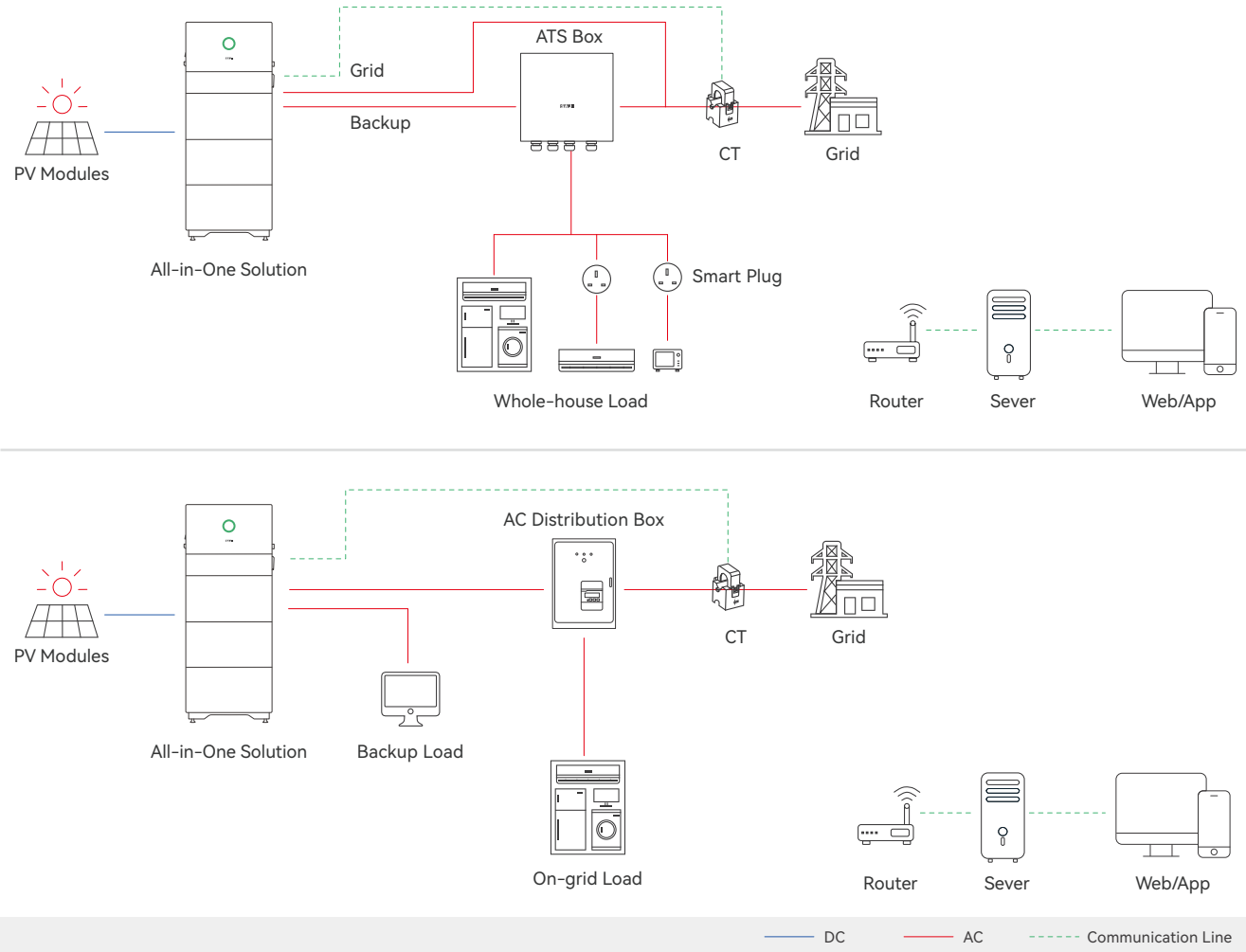
1

Utilize Energy with High Efficiency

2

Scalable for Growing Energy Demands

3



Products

All-in-One Energy Storage Solutions

HS3 Series

HS2 Series

Hybrid Inverters

H2 Series

Batteries

B2 Series

Smart Accessories

ATS

Smart Wi-Fi Plug

Smart Energy Management System

elekeeper

eleX Home Low-Voltage Whole-house Energy Storage Solution



Designed for effortless installation and intuitive smart control, this system provides reliable backup power for the entire home — no wiring modifications required. It supports multiple energy sources, including solar PV, battery storage, and diesel generators, all seamlessly managed through an intelligent control system. With a long-lasting design enhanced by AI-driven optimization, it delivers safer, more efficient, and more stable long-term energy performance for everyday living.

Core Values

Easy Installation

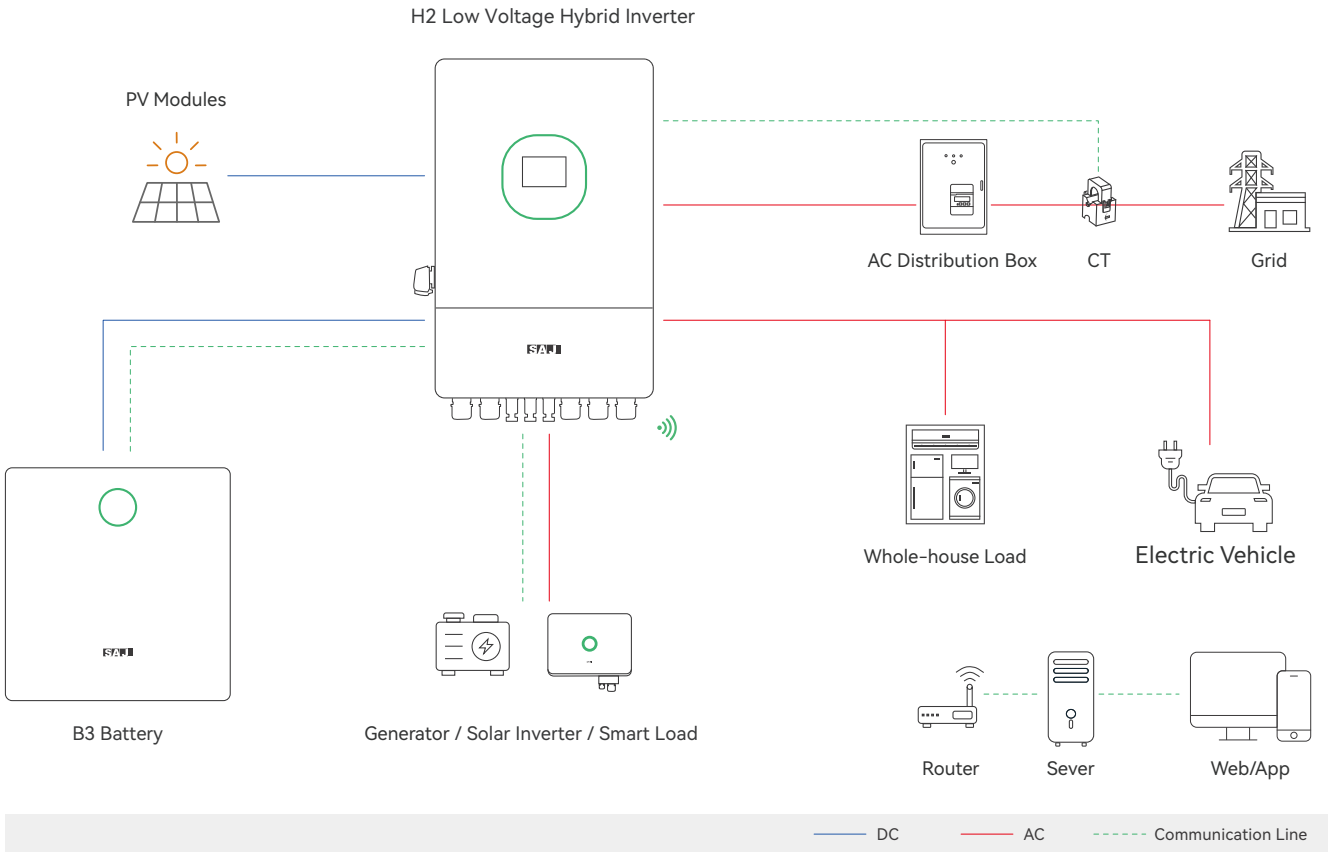
1

Whole-house Backup Power

2

Smart Energy Management

3



Products

Low Voltage Hybrid Inverter

H2 Series

Low Voltage Battery

B3 Series

Smart Accessories

Caro Series Home Wallbox

Smart Wi-Fi Plug

Smart Energy Management System

elekeeper

HS3 Single Phase All-in-One Solution

SAJ's latest all-in-one solution for residential energy storage system, integrated PCS, BMS, EMS, EV charger and battery, with plug-in play design, IP65 design and only 12 screws, making the installation a lot easier. HS3 covers from 3–6kW, 2 MPPTs and single phase grid.



- Integrated with 7kW EV charger module
- Max. 20A input current to better match high power panel
- Battery module integrated with a DC/DC optimiser, expandable whenever you need
- Plug-in connection of the modules without any cabling, easy installation
- 170mm thick, blend in with its surrounding
- Self-heating and fire-protection system inside the battery

HS3-3K-S2-W/G-PX | HS3-3.6K-S2-W/G-PX
HS3-4K-S2-W/G-PX | HS3-4.6K-S2-W/G-PX
HS3-5K-S2-W/G-PX | HS3-6K-S2-W/G-PX

Module	HS3-3K-S2-W/G-PX	HS3-3.6K-S2-W/G-PX	HS3-4K-S2-W/G-PX	HS3-4.6K-S2-W/G-PX	HS3-5K-S2-W/G-PX	HS3-6K-S2-W/G-PX
DC Input						
Max. PV Array Power [Wp]@STC	6000	7200	8000	9200	10000	12000
Max. DC Voltage [V]				600		
MPPT Voltage Range [V]				90~550		
Rated DC Voltage [V]				360		
Start Voltage [V]				100		
Max. DC Input Current [A]				20/20		
Max. DC Short Circuit Current [A]				25/25		
No. of MPPT				2		
AC Output/Input [On-grid]						
Rated AC Power [W]	3000	3600	4000	4600	5000***	6000*
Max. Apparent Power [VA]	3300	3600	4400	4600	5500***	6000*
Rated Output Current [A]@230Vac	13.0	15.7	17.4	20.0	21.7	26.1**
Max. Output Current [A]	14.3	15.7	19.1	20.0	23.9***	27.3**
Max. Input Current [A]@230Vac				54.5		
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%			
Battery Parameters						
Battery Type			LiFePO4			
Battery Voltage Range[V]			380 ~ 500			
Max. Charging/Discharging Current [A]	15.8/9.2	15.8/10	15.8/12.4	15.8/12.9	15.8/15.2***	15.8/16.8**
Scalability			BU3-5.0-TV2-PRO (up to 8 battery modules)			
AC Output [Back-up]						
Rated Output Power [W]	3000	3680	4000	4600	5000***	6000
Peak Output Apparent Power [VA]	3600,60s	4416,60s	4800,60s	5520,60s	6000,60s	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			97.2%			
Protection						
Battery Input Reverse Polarity Protection			Integrated			
Over load Protection			Integrated			
AC Short Circuit Current Protection			Integrated			
AC Overcurrent Protection			Integrated			
AC Overvoltage Protection			Integrated			
DC Surge Protection			Type II			
AC Surge Protection			Type II			
Anti-islanding Protection			Integrated			
AFCI Protection			Integrated			
Interface						
PV Connection			MC4/D4			
AC Connection			Plug-in connector			
Battery Connection			Quick connector			
Display			LED+APP			
Communication			Wi-Fi/Ethernet/4G(Optional)			
General Parameters						
Topology			Non-isolated			
Operating Temperature Range			-30°C ~ +50°C			
Cooling Method			Natural Convection			
Relative Humidity Range			0-100% Non-condensing			
Max. Operating Altitude [m]			3000			
Noise [dBA]			<35			
Ingress Protection			IP65			
Inverter Dimensions [H*W*D] [mm]			400*695*170			
Battery Dimensions [H*W*D] [mm]			370*695*170			
Inverter Weight [kg]			27.5			
Battery Weight [kg]			52.0			
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					
Charger Model						
	CU2-7.4K-S-I					
Output Voltage [V AC]			230, ± 20%			
Max. output Current [A]			32			
Rated Output Power [kW]			7			
Power Consumption (standby) [W]			7			
Dimension [mm] [H*W*D]			160*695*170			
Weight [kg]			9			
Working Temperature			-30°C to +50°C			
Ambient Humidity			5-95% non-condensing			

* For Ireland HS3-6K-S2-W/4G-P Rated AC Power [W] and Max.Apparent Power [VA] is 5750.
** For Ireland HS3-6K-S2-W/4G-P Rated Output Current [A] @230Vac and Max. Output Current [A] is 25, Max.Discharging Current [A] is 16.
*** For Australia HS3-5K-S2-W/4G-P Rated AC Power [W] and Max.Apparent Power [VA] is 4999, HS3-5K-S2-W/4G-P Max. Output Current [A] is 21.7, Max.Discharging Current [A] is 13.9A.
*** For Belgium HS3-5K-S2-W/4G-P Max.Apparent Power [VA] is 5000, HS3-5K-S2-W/4G-P Max. Output Current [A] is 21.7, Max.Discharging Current [A] is 13.9A.

HS3 Three Phase All-in-One Solution

SAJ's latest all-in-one solution for residential energy storage system, integrated PCS, BMS, EMS, EV charger and battery, with plug-in play design, IP65 design and only 12 screws, making the installation a lot easier. HS3 covers from 5–12kW, 2 MPPTs and three phase grid.



- Integrated with 11kW EV charger module
- Max. 20A input current to better match high power panel
- Battery module integrated with a DC/DC optimiser, expandable whenever you need
- Plug-in connection of the modules without any cabling, easy installation
- Supported 100% three phase voltage imbalance
- 170mm thick, blend in with its surrounding
- Self-heating and fire-protection system inside the battery

HS3-5K-T2-W/G-PX | HS3-6K-T2-W/G-PX
HS3-8K-T2-W/G-PX | HS3-10K-T2-W/G-PX
HS3-12K-T2-W/G-PX

Module	HS3-5K-T2-W/G-PX	HS3-6K-T2-W/G-PX	HS3-8K-T2-W/G-PX	HS3-10K-T2-W/G-PX	HS3-12K-T2-W/G-PX
DC Input					
Max. PV Array Power [Wp]@STC	10000	12000	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]			20/20		
Max. DC Short Circuit Current [A]			25/25		
No. of MPPT			2		
AC Output/Input [On-grid]					
Rated AC Power [W]	5000	6000	8000	10000	12000*
Max. Apparent Power [VA]	5500	6600	8800	11000***	12000*
Rated Output Current [A]@230Vac	7.2	8.7	11.6	14.5	17.4**
Max. Output Current [A]	8.0	9.6	12.8	15.9***	17.4**
Max. Input Current [A]@230Vac			29.0		
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%		
Battery Parameters					
Battery Type			LiFePO4		
Battery Voltage Range[V]			380~500		
Max. Charging/Discharging Current [A]	30/15.8	30/18.4	30/25	30/30	30/30
Scalability		BU3-5.0-TV2-PRO (up to 8 battery modules)			
AC Output [Back-up]					
Rated Output Power [W]	5000	6000	8000	10000	12000
Peak Output Apparent Power [VA]	7500,60s	9000,60s	12000,60s	15000,60s	15000,60s
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		
AC Overcurrent Protection			Integrated		
AC Overvoltage Protection			Integrated		
DC Surge Protection			Type II		
AC Surge Protection			Type II		
Anti-islanding Protection			Integrated		
AFCI Protection			Integrated		
Interface					
PV Connection			MC4/D4		
AC Connection			Plug-in connector		
Battery Connection			Quick connector		
Display			LED+APP		
Communication			Wi-Fi/Ethernet/4G(Optional)		
General Parameters					
Topology			Non-isolated		
Operating Temperature Range			-30°C ~ +50°C		
Cooling Method			Natural Convection		
Relative Humidity Range			0~100% Non-condensing		
Max. Operating Altitude [m]			3000		
Noise [dBA]			<35		
Ingress Protection			IP65		
Inverter Dimensions [H*W*D] [mm]			450*695*170		
Battery Dimensions [H*W*D] [mm]			370*695*170		
Inverter Weight [kg]			34		
Battery Weight [kg]			52.0		
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				
Charger Model			CU2-11K-T-I		
Output Voltage [V AC]			400, ± 20%		
Max. output Current [A]			16		
Rated Output Power [kW]			11		
Power Consumption (standby) [W]			5		
Dimension [mm] [H*W*D]			160*695*170		
Weight [kg]			9		
Working Temperature			-30°C to +50°C		
Ambient Humidity			5~95% non-condensing		

* For Ireland HS3-12K-T2-W/4G-P Rated AC Power [W] and Max.Apparent Power [VA] is 11000
** For Ireland HS3-12K-T2-W/4G-P Rated Output Current [A] @230Vac and Max. Output Current [A] is 15.9
*** For Belgium HS3-10K-T2-W/4G-P Max. Apparent Power [VA] is 10000, HS3-10K-T2-W/4G-P Max. Output Current [A] is 14.5

AS3 Single Phase All-in-One Solution

SAJ's latest all-in-one solution for residential energy storage system, integrated PCS, BMS, EMS, EV charger and battery, with plug-in play design, IP65 design and only 12 screws, making the installation a lot easier. AS3 covers from 3–6kW.



- Integrated with 7kW EV charger module
- Battery module integrated with a DC/DC optimiser, expandable whenever you need
- Plug-in connection of the modules without any cabling, easy installation
- 170mm thick, blend in with its surrounding
- Self-heating and fire-protection system inside the batter

AS3-3K-S-W/G-PX | AS3-3.6K-S-W/G-PX
AS3-4K-S-W/G-PX | AS3-4.6K-S-W/G-PX

MODEL	AS3-3K-S-W/G-PX	AS3-3.6K-S-W/G-PX	AS3-4K-S-W/G-PX	AS3-4.6K-S-W/G-PX
AC Output/Input [On-grid]				
Rated AC Power [W]	3000	3600	4000	4600
Max.Apparent Power [VA]	3300	3600	4400	4600
Rated Output Current [A]@230Vac	13.0	15.7	17.4	20.0
Max. Output Current [A]	14.4	15.7	19.1	20.0
Max. Input Current [A]@230Vac	54.5			
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%			
Battery Parameters				
Battery Type	LiFePO4			
Battery Voltage Range[V]	380 ~ 500			
Max.Charging Current [A]	7.9	9.5	10.5	12.1
Max.Discharging Current [A]	9.2	10	12.4	12.9
Scalability	BU3-5.0-TV1/2-PRO (up to 8 battery modules)			
AC Output [Back-up]				
Rated Output Power [W]	3000	3600	4000	4600
Peak Output Apparent Power [VA]	3600,60s	4416,60s	4800,60s	5520,60s
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%			
Protection				
Battery Input Reverse Polarity Protection	Integrated			
Over load Protection	Integrated			
AC Short Circuit Current Protection	Integrated			
AC Overcurrent Protection	Integrated			
AC Overvoltage Protection	Integrated			
AC Surge Protection	Type II			
Anti-islanding Protection	Integrated			
Interface				
AC Connection	Plug-in connector			
Battery Connection	Quick connector			
Display	LED+APP			
Communication	Wi-Fi/Ethernet/4G (Optional)			
General Parameters				
Topology	Non-isolated			
Operating Temperature Range	-30°C ~ +50°C			
Cooling Method	Natural Convection			
Relative Humidity Range	0-100% Non-condensing			
Max. Operating Altitude [m]	3000			
Noise [dBA]	<35			
Ingress Protection	IP65			
Inverter Dimensions [H*W*D] [mm]	400*695*170			
Battery Dimensions [H*W*D] [mm]	370*695*170			
Inverter Weight [kg]	27.5			
Battery Weight [kg]	52			
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			
Charger Model				
CU2-7.4K-S-I				
Output Voltage [V AC]	230, ± 20%			
Max. output Current [A]	32			
Rated Output Power [kW]	7			
Power Consumption (standby) [W]	7			
Dimension [mm] [H*W*D]	160*695*170			
Weight [kg]	9			
Working Temperature	-30°C to +50°C			
Ambient Humidity	5-95% non-condensing			

AS3 Single Phase All-in-One Solution

SAJ's latest all-in-one solution for residential energy storage system, integrated PCS, BMS, EMS, EV charger and battery, with plug-in play design, IP65 design and only 12 screws, making the installation a lot easier. AS3 covers from 3–6kW.



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- Battery module integrated with a DC/DC optimiser, expandable whenever you need
- Plug-in connection of the modules without any cabling, easy installation
- 170mm thick, blend in with its surrounding
- Self-heating and fire-protection system inside the batter

AS3-5K-S-W/G-PX | AS3-5K-S-W/G-PX-BE
AS3-6K-S-W/G-PX | AS3-6K-S-W/G-PX-IE

MODEL	AS3-5K-S-W/G-PX	AS3-5K-S-W/G-PX-BE	AS3-6K-S-W/G-PX	AS3-6K-S-W/G-PX-IE
AC Output/Input [On-grid]				
Rated AC Power [W]	5000	5000	6000	5750
Max.Apparent Power [VA]	5500	5000	6000	5750
Rated Output Current [A]@230Vac	21.7	21.7	26.1	25
Max. Output Current [A]	23.9	21.7	26.1	25
Max. Input Current [A]@230Vac	54.5			
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%			
Battery Parameters				
Battery Type	LiFePO4			
Battery Voltage Range[V]	380 ~ 500			
Max.Charging Current [A]	13.2	13.2	15.8	15.1
Max.Discharging Current [A]	15.2	13.9	16.8	16
Scalability	BU3-5.0-TV1/2-PRO (up to 8 battery modules)			
AC Output [Back-up]				
Rated Output Power [W]	5000	5000	6000	5750
Peak Output Apparent Power [VA]	6000,60s	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%			
Protection				
Battery Input Reverse Polarity Protection	Integrated			
Over load Protection	Integrated			
AC Short Circuit Current Protection	Integrated			
AC Overcurrent Protection	Integrated			
AC Overvoltage Protection	Integrated			
AC Surge Protection	Type II			
Anti-islanding Protection	Integrated			
Interface				
AC Connection	Plug-in connector			
Battery Connection	Quick connector			
Display	LED+APP			
Communication	Wi-Fi/Ethernet/4G (Optional)			
General Parameters				
Topology	Non-isolated			
Operating Temperature Range	-30°C ~ +50°C			
Cooling Method	Natural Convection			
Relative Humidity Range	0-100% Non-condensing			
Max. Operating Altitude [m]	3000			
Noise [dBA]	<35			
Ingress Protection	IP65			
Inverter Dimensions [H*W*D] [mm]	400*695*170			
Battery Dimensions [H*W*D] [mm]	370*695*170			
Inverter Weight [kg]	27.5			
Battery Weight [kg]	52			
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			
Charger Model				
CU2-7.4K-S-I				
Output Voltage [V AC]	230, ± 20%			
Max. output Current [A]	32			
Rated Output Power [kW]	7			
Power Consumption (standby) [W]	7			
Dimension [mm] [H*W*D]	160*695*170			
Weight [kg]	9			
Working Temperature	-30°C to +50°C			
Ambient Humidity	5-95% non-condensing			

AS3 Three Phase All-in-One Solution

SAJ's latest all-in-one solution for residential energy storage system, integrated PCS, BMS, EMS, EV charger and battery, with plug-in play design, IP65 design and only 12 screws, making the installation a lot easier. AS3 covers from 3-12kW.



- Integrated with 11kW EV charger module
- Battery module integrated with a DC/DC optimiser, expandable whenever you need
- Plug-in connection of the modules without any cabling, easy installation
- Supported 100% three phase voltage imbalance
- 170mm thick, blend in with its surrounding
- Self-heating and fire-protection system inside the batter

AS3-3K-T-W/G-PX | AS3-4K-T-W/G-PX
AS3-5K-T-W/G-PX | AS3-6K-T-W/G-PX | AS3-8K-T-W/G-PX

MODEL	AS3-3K-T-W/G-PX	AS3-4K-T-W/G-PX	AS3-5K-T-W/G-PX	AS3-6K-T-W/G-PX	AS3-8K-T-W/G-PX
AC Output/Input [On-grid]					
Rated AC Power [W]	3000	4000	5000	6000	8000
Max.Apparent Power [VA]	3300	4400	5500	6600	8800
Rated Output Current [A]@230Vac	4.4	5.8	7.2	8.7	11.6
Max. Output Current [A]	4.8	6.4	8.0	9.6	12.8
Max. Input Current [A]@230Vac	29				
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%				
Battery Parameters					
Battery Type	LiFePO4				
Battery Voltage Range[V]	380 ~ 500				
Max.Charging Current [A]	7.9	10.5	13.2	15.8	21.1
Max.Discharging Current [A]	9.2	12.4	15.8	18.4	25
Scalability	BU3-5.0-TV1/2-PRO (up to 8 battery modules)				
AC Output [Back-up]					
Rated Output Power [W]	3000	4000	5000	6000	8000
Peak Output Apparent Power [VA]	6000,60s	8000,60s	10000,60s	12000,60s	16000,60s
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	96%		98%		
Protection					
Battery Input Reverse Polarity Protection	Integrated				
Over load Protection	Integrated				
AC Short Circuit Current Protection	Integrated				
AC Overcurrent Protection	Integrated				
AC Overvoltage Protection	Integrated				
AC Surge Protection	Type II				
Anti-islanding Protection	Integrated				
Interface					
AC Connection	Plug-in connector				
Battery Connection	Quick connector				
Display	LED+APP				
Communication	Wi-Fi/Ethernet/4G (Optional)				
General Parameters					
Topology	Non-isolated				
Operating Temperature Range	-30°C ~ +50°C				
Cooling Method	Natural Convection				
Relative Humidity Range	0-100% Non-condensing				
Max. Operating Altitude [m]	3000				
Noise [dBA]	<35				
Ingress Protection	IP65				
Inverter Dimensions [H*W*D] [mm]	450*695*170				
Battery Dimensions [H*W*D] [mm]	370*695*170				
Inverter Weight [kg]	32.0				
Battery Weight [kg]	52				
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				
Charger Model			CU2-11K-T-I		
Output Voltage [V AC]	400, ± 20%				
Max. output Current [A]	16				
Rated Output Power [kW]	11				
Power Consumption (standby) [W]	5				
Dimension [mm] [H*W*D]	160*695*170				
Weight [kg]	9				
Working Temperature	-30°C to +50°C				
Ambient Humidity	5-95% non-condensing				

AS3 Three Phase All-in-One Solution

SAJ's latest all-in-one solution for residential energy storage system, integrated PCS, BMS, EMS, EV charger and battery, with plug-in play design, IP65 design and only 12 screws, making the installation a lot easier. AS3 covers from 3-12kW.



- Integrated with 11kW EV charger module
- Battery module integrated with a DC/DC optimiser, expandable whenever you need
- Plug-in connection of the modules without any cabling, easy installation
- Supported 100% three phase voltage imbalance
- 170mm thick, blend in with its surrounding
- Self-heating and fire-protection system inside the batter

AS3-10K-T-W/G-PX | AS3-10K-T-W/G-PX-BE
AS3-12K-T-W/G-PX | AS3-12K-T-W/G-PX-IE

MODEL	AS3-10K-T-W/G-PX	AS3-10K-T-W/G-PX-BE	AS3-12K-T-W/G-PX	AS3-12K-T-W/G-PX-IE
AC Output/Input [On-grid]				
Rated AC Power [W]	10000	10000	12000	11000
Max.Apparent Power [VA]	11000	10000	12000	11000
Rated Output Current [A]@230Vac	14.5	14.5	17.4	15.9
Max. Output Current [A]	15.9	14.5	17.4	15.9
Max. Input Current [A]@230Vac	29			
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%			
Battery Parameters				
Battery Type	LiFePO4			
Battery Voltage Range[V]	380 ~ 500			
Max.Charging Current [A]	26.3	26.3	30	28.9
Max.Discharging Current [A]	30	30	30	30
Scalability	BU3-5.0-TV1/2-PRO (up to 8 battery modules)			
AC Output [Back-up]				
Rated Output Power [W]	10000	10000	12000	11000
Peak Output Apparent Power [VA]	16500,60s	16500,60s	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			
Protection				
Battery Input Reverse Polarity Protection	Integrated			
Over load Protection	Integrated			
AC Short Circuit Current Protection	Integrated			
AC Overcurrent Protection	Integrated			
AC Overvoltage Protection	Integrated			
AC Surge Protection	Type II			
Anti-islanding Protection	Integrated			
Interface				
AC Connection	Plug-in connector			
Battery Connection	Quick connector			
Display	LED+APP			
Communication	Wi-Fi/Ethernet/4G (Optional)			
General Parameters				
Topology	Non-isolated			
Operating Temperature Range	-30°C ~ +50°C			
Cooling Method	Natural Convection			
Relative Humidity Range	0-100% Non-condensing			
Max. Operating Altitude [m]	3000			
Noise [dBA]	<35			
Ingress Protection	IP65			
Inverter Dimensions [H*W*D] [mm]	450*695*170			
Battery Dimensions [H*W*D] [mm]	370*695*170			
Inverter Weight [kg]	32.0			
Battery Weight [kg]	52			
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			
Charger Model			CU2-11K-T-I	
Output Voltage [V AC]	400, ± 20%			
Max. output Current [A]	16			
Rated Output Power [kW]	11			
Power Consumption (standby) [W]	5			
Dimension [mm] [H*W*D]	160*695*170			
Weight [kg]	9			
Working Temperature	-30°C to +50°C			
Ambient Humidity	5-95% non-condensing			

HS2/AS2 Single Phase All-in-One Solution

SAJ's first all-in-one solution for residential energy storage system, integrated PCS, BMS and battery, with module and IP65 design, no external wire, suitable for outdoor easy installation. HS2 covers from 3–6kW, 2 MPPTs and single phase grid.



- ❑ AC retrofit & easy installation
- ❑ Max 16A input current to better match high power panel
- ❑ Modular design and expandable up to 20.0kWh
- ❑ With UPS function switch time ≤ 10ms
- ❑ IP65 outdoor design
- ❑ AFCI integrated(optional), RSD supported(optional)

HS2-3K-S2-X | HS2-3.6K-S2-X
HS2-4K-S2-X | HS2-4.6K-S2-X | HS2-5K-S2-X
HS2-5K-S2-B-X | HS2-6K-S2-IE-X | HS2-6K-S2-X

MODEL	HS2-3K-S2-X	HS2-3.6K-S2-X	HS2-4K-S2-X	HS2-4.6K-S2-X	HS2-5K-S2-X	HS2-5K-S2-B-X	HS2-6K-S2-IE-X	HS2-6K-S2-X
DC Input								
Max. PV Array Power [Wp]@ STC	4500	5400	6000	6900	7500	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							
Scalability	BU2-5.0-HV1/5 (up to 4 battery modules)							
AC Output [On-grid]								
Rated AC Power [W]	3000	3680	4000	4600	5000	5000	5500	6000
Max. Apparent Power [VA]	3300	3680	4400	4600	5500	5000	5500	6000
Rated Output Current [A]@ 230Vac	13.0	16.0	17.4	20.0	21.7 ^{*1}	21.7	25.0	26.1
Max. Output Current [A]	15.0	16.0	20.0	20.0	25.0	22.7	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	40.0	43.5	43.5	52.2	52.2
AC Output [Back-up]								
Max. Output Power [VA]	3000	3680	4000	4600	5000	5000	5500	6000
Max. Output Current [A]	13.6	16.7	18.2	20.9	22.7	22.7	25.0	27.3
Peak Output Apparent Power [VA]	3600,60s	4416,60s	4800,60s	5520,60s	6000,60s	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/D4							
AC Connection	Plug-in connector							
Battery Connection	Quick connector							
Display	LED+APP							
Communication	Wi-Fi/Ethernet/4G (Optional)							
General Parameters								
Topology	Non-isolated							
Operating Temperature Range	-10°C to +50°C (>45°C 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]	354*626*365							
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 0-21, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1							

Remarks: *1 According to VDE-ARN-N 4105, Rated AC Current for HS2-5K-S2 is 20A.

HS2/AS2 Three Phase All-in-One Solution

SAJ's first all-in-one solution for residential energy storage system, integrated PCS, BMS and battery, with module and IP65 design, no external wire, suitable for outdoor easy installation. HS2 covers from 5-10kW, 2 MPPTs and three phase grid.



- ❑ AC retrofit & easy installation
- ❑ Max 16A input current to better match high power panel
- ❑ Modular design and expandable up to 25.0kWh
- ❑ With UPS function switch time ≤ 10ms
- ❑ IP65 outdoor design
- ❑ Supported 100% three phase voltage imbalance

HS2-5K-T2-X | HS2-6K-T2-X
HS2-8K-T2-X | HS2-10K-T2-X | HS2-10K-T2-B-X

MODEL	HS2-5K-T2-X	HS2-6K-T2-X	HS2-8K-T2-X	HS2-10K-T2-X	HS2-10K-T2-B-X
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]			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]			180 ~ 600		
Max. Charging/ Discharging Current [A]			30/30		
Scalability	BU2-5.0-HV1/5 (up to 5 battery modules)				
AC Output [On-grid]					
Rated AC Power [W]	5000	6000	8000	10000	10000
Max. Apparent Power [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	14.5	17.4	23.2	29.0	29.0
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	15.9
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/D4				
AC Connection	Plug-in connector				
Battery Connection	Quick connector				
Display	LED+APP				
Communication	Wi-Fi/Ethernet/4G (Optional)				
General Parameters					
Topology	Non-isolated				
Operating Temperature Range	-10°C to +50°C (>45°C 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]	450*626*365				
Weight [kg]	32				
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 0-21, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1				

H2 3-6K Single Phase Hybrid Inverter



SAJ's hybrid inverter supported easy setting of smart working modes, UPS 10ms switch time and fast charging/discharging speed of battery. H2 covers 3-6kW, 2MPPTs and single phase grid.



- Easy setting of smart working modes
- AFCI (optional)
- DC 16A string matched with ultra high PV modules
- Battery fast charging/ discharging supported
- 150% DC oversizing
- With UPS function switch time ≤ 10ms

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

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 [VA]	3300	3680	4400	5500	5500	6000
Rated Output Current [A]@230Vac	13.0	16.0	17.4	21.7*	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/D4					
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 0-21, AS 4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105, VDE 0126-1-1					

Remarks: *1 According to VDE-ARN-N 4105, Rated AC Current for H2-5K-S2 is 20A.

H2 5-10K Single Phase Hybrid Inverter

SAJ's hybrid inverter supported easy setting of smart working modes, UPS 10ms switch time and fast charging/discharging speed of battery. H2 covers 5-10kW, 3MPPTs and single phase grid.



- Easy setting of smart working modes
- AFCI (optional)
- DC 16A string matched with ultra high PV modules
- Max. 3 MPPT trackers
- 150% DC oversizing
- With UPS function switch time ≤ 10ms

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

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 [VA]	5500	5500	6600	7700	8800	10000
Rated Output Current [A]@230Vac	21.7*	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/D4					
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 0-21, AS 4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105, VDE 0126-1-1					

Remarks: *1 According to VDE-ARN-N 4105, Rated AC Current for H2-5K-S3 is 20A.

H2 5-10K Three Phase Hybrid Inverter

SAJ's hybrid inverter supported easy setting of smart working modes, UPS 10ms switch time and fast charging/discharging speed of battery. H2 covers 5-10kW, 2MPPTs and three phase grid.



- Easy setting of smart working modes
- AFCI (optional)
- DC 15A string matched with ultra high PV modules
- 150% DC oversizing
- Battery fast charging/ discharging supported
- Supported 100% three phase voltage imbalance
- With UPS function switch time ≤ 10ms
- 110% AC overloading

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

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 [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/D4		
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 0-21, AS 4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105, VDE 0126-1-1				

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 ≤ 20ms

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									

B2 5.0kWh High Voltage Battery

B2 high voltage battery follows the same design language from H2 inverter, provides a stackable design for end-user to choose different capacity of battery system, from 5kWh to 25kWh in one stack, with high efficiency.



- ❑ Wall-mounted or ground-mounted
- ❑ Remote firmware upgrade
- ❑ Modular design scalable up to 25.0kWh
- ❑ IP65 outdoor design
- ❑ LiFePO4 batteries, safe and reliable
- ❑ 95% Depth of discharge

B2-5.0-HV1 | B2-10.0-HV1 | B2-15.0-HV1

B2-20.0-HV1 | B2-25.0-HV1

B2-5.0-HV5 | B2-10.0-HV5 | B2-15.0-HV5

B2-20.0-HV5 | B2-25.0-HV5

MODEL	B2-5.0-HV1	B2-10.0-HV1	B2-15.0-HV1	B2-20.0-HV1	B2-25.0-HV1
Battery Module	BU2-5.0-HV1 (32S1P 102.4V50Ah)				
No. of Modules	1	2	3	4	5
Rated Energy [kWh]	5.0	10.0	15.0	20.0	25.0
Usable Energy [kWh]	4.8	9.6	14.4	19.2	24
Rated Power [W]	3072	6144	9216	12288	15360
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				
Max. Fault Current [A]	100				
Dimension (H*W*D)[mm]	200*626*365				
Weight [kg]	11				
General Parameters					
Ingress Protection	IP65				
Mounting	Wall-Mounted (optional)/ 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]	Refer to the warranty card				
Applicable Standard	IEC 62619(Cell&Pack), EN 62477-1, EN 61000-6-1/2/3/4, UN38.3				

MODEL	B2-5.0-HV5	B2-10.0-HV5	B2-15.0-HV5	B2-20.0-HV5	B2-25.0-HV5
Battery Module	BU2-5.0-HV5 (32S1P 102.4V50Ah)				
No. of Modules	1	2	3	4	5
Rated Energy [kWh]	5.0	10.0	15.0	20.0	25.0
Usable Energy [kWh]	4.8	9.6	14.4	19.2	24
Rated Power [W]	3072	6144	9216	12288	15360
Dimension (H*W*D)[mm]	261*626*365	522*626*365	783*626*365	1044*626*365	1305*626*365
Weight [kg]	52.5	105	157.5	210	262.5
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				
Max. Fault Current [A]	100				
Dimension (H*W*D)[mm]	200*626*365				
Weight [kg]	11				
General Parameters					
Ingress Protection	IP65				
Mounting	Wall-Mounted (optional)/ 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]	Refer to the warranty card				
Applicable Standard	IEC 62619(Cell&Pack), EN 62477-1, EN 61000-6-1/2/3/4, UN38.3				

H2 HV Split Phase Hybrid Inverter



It matches North America high voltage market, operating simply, more safety and reliable, support 16A PV input current, AC coupling and parallel, integrated AFCI and RSD protection, attach up to 3*4 battery modules, up to 87.6kWh.



- Up to 4 MPPTs (3 for 5/7.6kW model and 4 for 8.6/10/12kW model)
- 16A PV input current to support ultra-high power PV modules
- Fast battery charging with up to 50A battery charging current
- 120/240V split-phase output, without the need of auto-transformer
- Peak power capability of 1.5 times rated power to better handle motor type loads
- Seamless transition to battery power when grid is down



H2-5K-S3-US | H2-7.6K-S3-US | H2-8.6K-S4-US
H2-10K-S4-US | H2-12K-S4-US

MODEL	H2-5K-S3-US	H2-7.6K-S3-US	H2-8.6K-S4-US	H2-10K-S4-US	H2-12K-S4-US
PV String Input Data					
Max. PV Array Power [Wp]@STC	7500	11400	12900	15000	18000
Max. DC Voltage [V]			600		
MPPT Voltage Range [V]			90-550		
Nominal DC Voltage [V]			360		
Start Voltage [V]			100		
Min. DC Voltage [V]			80		
Max. DC Input Current [A]	16/16/16		16/16/16/16		
Max. DC Short Current [A]	19.2/19.2/19.2		19.2/19.2/19.2/19.2		
Number of MPPT	3		4		
PV Strings per MPPT	1/1/1		1/1/1/1		
PV Switch	Integrated				
Battery Input Data					
Battery Type	Lithium ion battery				
Battery Voltage Range [V]	85-450				
Max. Charging/Discharging Current [A]	50				
AC Output Data (On-grid)					
AC Nominal Power [W]@208Vac	4330	6580	7450	8600	10400
AC Nominal Power [W]@240Vac	5000	7600	8600	10000	12000
Rated AC Current [A]@240Vac	20.8	31.7	35.8	41.7	50.0
Nominal AC Voltage/ Range [V]	L1/L2/N/PE, 208V/240V; 183V~229V/211V~264V				
Grid Frequency/ Range [Hz]	60				
Power Factor [cos ϕ]	0.8 leading~0.8 lagging				
Total Harmonic Distortion [THDi]	< 3% (at nominal power)				
AC Output [Back-up Mode]					
AC Nominal Power [W]	5000	7600	8600	9600	12000
Surge AC Power [VA]	7500,10s	11400,10s	12900,10s	14400,10s	18000,10s
Rated Output Voltage [V]	240 / 120				
Rated Output Frequency [Hz]	60				
Efficiency					
Max. Efficiency	97.6%				
CEC Efficiency	97.0%				
Protection					
AC Short-circuit Protection	Integrated				
Overload Protection	Integrated				
DC Overvoltage/ Undervoltage Protection	Integrated				
AC Overvoltage/ Undervoltage Protection	Integrated				
AC Overfrequency/ Underfrequency Protection	Integrated				
Over Temperature Protection	Integrated				
Anti-islanding Protection	Integrated				
AC Surge Protection	II				
DC Surge Protection	II				
AFCI Protection	Integrated				
Interface					
Human Machine Interface	LED/APP (via Bluetooth)				
BMS Communication	RS485/CAN				
Communication for Monitoring	Wi-Fi/Ethernet/4G(Optional)				
General Data					
Topology	Transformerless				
Consumption at Standby [W]	< 10				
Operating Temperature Range	-40°F to 140°F (-40°C to +60°C), 113°F to 140°F with derating (45°C to 60°C with derating)				
Cooling Method	Natural Convection				
Ambient Humidity	0% ~ 95% Non-condensing				
Maximum Elevation	4000m (13123ft), derate over 3000m (9842ft)				
Noise Level @1m [dBA]	<30				
Ingress Protection	NEMA 4x (IP65)				
Mounting	Wall mounting				
Dimensions [H*W*D] [inch]	27.2*19.3*7.8				
Weight [kg]	32 (71 lbs)				
Warranty [years]	10				
Safety/EMC Standard	UL 1741 CRD, IEEE 1547, UL 1699B, UL 1998, UL 9540, CAN/CSA C22.2.107.1-1, FCC, Part 15 Class B, SRD-UL1741				

H2 LV Split Phase Hybrid Inverter

Suitable for the US market split phase grid, photovoltaic input supports 1.5DC /AC ratio, battery input 48V flexible battery configuration, Up to 11.4kW output intergrated 200A transfer Relay to support whole home backup power.



- Up to 11.4kW output intergrated 200A transfer Relay, support whole home backup power
- IP65 protection, support indoor and outdoor installlation
- Lithium battery and lead acid battery compatibility
- Maximum 4 MPPTs
- With UPS function switch time ≤ 20ms
- Compatibility with generator input for backups



H2-5K-LS3-US | H2-7.6K-LS3-US
H2-9.6K-LS4-US | H2-11.4K-LS4-US

MODEL	H2-5K-LS3-US	H2-7.6K-LS3-US	H2-9.6K-LS4-US	H2-11.4K-LS4-US
PV String Input				
Max PV Array Power [Wp]@STC	7500	11400	14400	17100
Max DC Voltage [V]	600			
MPPT Voltage Range [V]	90 ~ 550			
Nominal DC Voltage [V]	380			
Start Voltage/Min Input Voltage [V]	100			
Max Input Current [A]	16/16/16		16/16/16/16	
No. of Strings per MPPT	1/1/1		1/1/1/1	
No. of MPPT	3		4	
Battery Input				
Battery Type	Lead-acid or LiFePO4			
Voltage Range [V]	40 ~ 60			
Max. Charging/ Discharging Current [A]	160		240	
AC Output [On-grid]				
Rated AC Power [W]@208Vac	4330	6580	8320	9880
Rated AC Power [W]@240Vac	5000	7600	9600	11400
Max. Apparnet Power [VA]	5500	3860	10560	12540
Rated AC Current [A]@208Vac	20.8	31.7	40	47.5
Max. AC Current [A]@240Vac	22.9	34.8	44	52.3
Rated AC Voltage/Range	L1/L2/N/PE, 208V/240V; 183V~229V/211V~264V			
Rated Output Frequency [Hz]	60/54~65			
Power Factor [cosφ]	0.8 leading ~ 0.8 lagging			
Total Harmonic Distortion [THDi]	<3%			
AC Output [Back-up Mode]				
Rated Output Power [W]@240Vac	5000	7600	9600	11400
Over Load Capacity [W, 10s]	11400		17100	
Rated Output Voltage [V]	120/240			
Rated Output Frequency [Hz]	60			
Output THDV(@ Liner Load)	<3%			
Efficiency				
Max. Efficiency	97.6%			
CEC Efficiency [@600Vdc]	97%			
Bat-AC Max. Efficiency	93%			
Protection				
Over Voltage Protection	Intergrated			
AC Surge Protection	Type II			
DC Surge Protection	Type II			
Over Heat Protection	Intergrated			
Islanding Pretecton	Intergrated			
AFP	Intergrated			
RSD	Intergrated			
Interface				
Display	LED+APP (Bluetooth)			
Communication Port	RS232 +RS485(RJ45)+DRM(RJ45)			
Communication	Wi-Fi/Ethernet/4G			
Load Monitor	24 hours			
General Data				
Isolation Type	HF			
Standby Power Consumption [W]	<10			
Operating Temperature Range	-40℃ ~ +60℃ (>45℃ power derating)			
Cooling Method	Smart Fan Cooling			
Ambient Humidity	0% ~ 100% no-condensing			
Altitude	4000m (>3000m power derating)			
Noise [dBA]	<40			
Ingress Protection	NEMA 4x (IP65)			
Mounting	Wall Mounting			
Dimensions [H*W*D][inch]	30.7*18.5*10.2			
Weight [kg]	50 (110 lbs)			
Warranty [years]	10			
Safety/EMC Standard	UL 1741 CRD, IEEE 1547, UL 1699B, UL 1998, UL 9540, CAN/CSA C22.2.107.1-1, FCC, Part 15 Class B, SRD-UL1741			

B2 7.3kWh High Voltage Battery

B2 high voltage battery follows the same design language from H2 inverter, provides a stackable design for end-user to choose different capacity of battery system, from 7.3kWh to 21.9kWh in one stack, with high efficiency, super slim depth, suitable for garage.



- ❑ Wall-mounted or ground-mounted
- ❑ Remote firmware upgrade
- ❑ Modular design scalable up to 21.9kWh
- ❑ LiFePO4 batteries safe and reliable
- ❑ IP65 outdoor design
- ❑ Plug and play, no external wiring required



B2-7.3-HV5 | B2-14.6-HV5 | B2-21.9-HV5

MODEL	B2-7.3-HV5	B2-14.6-HV5	B2-21.9-HV5
Battery Module	BU2-7.3-HV5 (32S1P 102.4V72Ah)		
No. of Modules	1	2	3
Rated Energy [kWh]	7.3	14.6	21.9
Usable Energy [kWh]	6.6	13.2	19.7
Dimension [H*W*D] [mm]	790*810*150	1260*810*150	1730*810*150
Weight [kg]	78.1	139.8	201.5
Nominal Voltage [V]	102.4	204.8	307.2
Operating Voltage [V]	89.6-115.2	179.2-230.4	268.8-345.6
Max. Charge Current [A]	50		
Max. Discharge Current [A]	50		
Rated Power [kW]	5.12	10.24	15.36
Control Module	BC2-HV		
Dimension [H*W*D] [mm]	270*810*150		
Weight[kg]	13.1		
General Parameters			
Ingress Protection	IP65		
Altitude [m]	< 2000		
Mounting	Wall-Mounted/Ground-Mounted		
Operating Temperature Range	Charging: 0~50°C; Discharging: -20~50°C		
Ambient Humidity	5~95% (non-condensing)		
Cooling Method	Natural Convection		
Communication	CAN		
Warranty [Year]	10		
Applicable Standard	VDE 2510, IEC62619, CE/UL1973, EN61000-6-1, EN61000-6-3, UN38.3, RoHS		

Residential Energy Storage System



H2 3-6K Low Voltage Hybrid Inverter

SAJ's Low Voltage solution of hybrid inverter, allow to be compatible with both LFP and Lead-Acid Battery, support storing energy from diesel generator, provide a most cost efficiency solution for those entry-level market. H2 covers 3-6kW, 2MPPTs, single phase grid.



- Colorful touch LCD, IP66 protection degree
- Max. 18A PV input current; DC/AC access oversizing up to 200%
- Max 140A fast charge/discharge current
- Support whole home backup function with up to 63 A bypass
- Max. 4 pcs parallel for on-grid and off-grid operation, Support multiple batteries parallel
- Integrated Intelligent energy management with generator, heat pump, solar system and smart load
- Ultralight for easy installation and space-saving

H2-3K-LS2-S | H2-3.6K-LS2-S | H2-4K-LS2-S
H2-4.6K-LS2-S | H2-5K-LS2-S | H2-6K-LS2-S

MODEL	H2-3K-LS2-S	H2-3.6K-LS2-S	H2-4K-LS2-S	H2-4.6K-LS2-S	H2-5K-LS2-S	H2-6K-LS2-S
DC Input						
Max. PV Array Power [Wp]@STC	6000	7000	8000	9200	10000	12000
Max. PV Input Power	4800	5760	6400	7360	8000	9600
Max. DC Voltage [V]	500					
MPPT Voltage Range [V]	80 ~ 450					
Rated DC Voltage [V]	360					
Start Voltage [V]	80					
Max. DC Input Current [A]	18/18					
Max. DC Short Circuit Current [A]	25/25					
No. of MPPT/String	2/2					
Battery Parameters						
Battery Type	Lead-acid or LiFePO4					
Battery Voltage Range[V]	40 ~ 60					
Max.Charging/Discharging Current [A]	80	90	100	110	120	140
Chagring strategy for Li-ion battery	Self-adaption to BMS					
Communication	CAN					
AC Output [On-grid]						
Rated AC Power [W]	3000	3600	4000	4600	5000	6000
Max. Apparent Power [VA]	3300	3600	4400	4600	5500	6600
Rated Output Current [A]	13.0	15.7	17.4	20.0	21.7	26.1
Max. Output Current [A]	14.3	15.7	19.1	20.0	23.9	28.7
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240					
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					
AC Bypass Current(A)	63					
AC Output [Back-up]						
Max. Output Power [VA]	3000	3600	4000	4600	5000	6000
Max. Output Current [A]	13.0	15.7	17.4	20.0	21.7	26.1
Peak Output Apparent Power [VA]	2 Times,10S					
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240					
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	Type II					
AC Surge Protection	Type II					
Anti-islanding Protection	Integrated					
AFCI Protection	Optional					
Interface						
PV Connection	MC4					
AC Connection	Terminal Block					
Battery Connection	Terminal Block					
Display	LCD+APP					
Communication	Wi-Fi/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	Nature					
Ambient Humidity	0-100% Non-condensing					
Altitude	3000m					
Noise [dBA]	<35					
Ingress Protection	IP66					
Dimensions [H*W*D] [mm]	460*350*231					
Weight [kg]	24.0					
Standard	EN 62109-1/2, EN 61000-6-2/4, IEC 62116, IEC 61727,PEA&MEA, NBR 16149, NBR 16150, PORTARIA N° 140					

H2 7.6–12K Low Voltage Hybrid Inverter

SAJ's Low Voltage solution of hybrid inverter, allow to be compatible with both LFP and Lead-Acid Battery, support storing energy from diesel generator, provide a most cost efficiency solution for those entry-level market. H2 covers 7.6-12kW, 2MPPTs, single phase grid.



- Colorful touch LCD, IP65 protection degree
- Max. 20A PV input current; DC/AC access oversizing up to 200%
- Max 240A fast charge/discharge current
- Heat-resistant (> 50°Cwith derating)
- Support whole home backup function with up to 63 A bypass
- Max. 4 pcs parallel for on-grid and off-grid operation, Support multiple batteries parallel
- Integrated Intelligent energy management with generator, heat pump,solar system and smart load
- Ultralight for easy installation and space-saving

H2-7.6K-LS2 | H2-8K-LS2
H2-10K-LS2 | H2-12K-LS2

MODEL	H2-7.6K-LS2	H2-8K-LS2	H2-10K-LS2	H2-12K-LS2
DC Input				
Max. PV Access Power [Wp]@STC	15200	16000	20000	24000
Max. PV Input Power[W]	12200	12800	16000	19200
Max. DC Voltage [V]	500			
MPPT Voltage Range [V]	90 ~ 480			
Rated DC Voltage [V]	360			
Start Voltage [V]	80			
Max. DC Input Current [A]	40/40			
Max. DC Short Circuit Current [A]	50/50			
No. of MPPT/string	2/4			
Battery Parameters				
Battery Type	Lead-acid or LiFePO4 190			
Battery Voltage Range[V]	40 ~ 60			
Max. Charging/Discharging Current [A]	190	190	240	
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of battery input	2			
AC Output [On-grid]				
Rated AC Power [W]	7600	8000	10000	12000
Max. Apparent Power [VA]	8360	8800	10000	12000
Rated Output Current [A]@230Vac	33.0	34.8	43.5	52.2
Max. Output Current [A]	38.0	40.0	45.5	54.6
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			
Bypass Current [A]@230Vac	63			
AC Output [Back-up]				
Max. Output Power [VA]	7600	8000	10000	12000
Max. Output Current [A]	38.0	40.0	45.5	54.6
Peak Output Apparent Power [VA]	2 Times , 10S			
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			
Interface				
PV Connection	MC4			
AC Connection	Terminal Block			
Battery Connection	Terminal Block			
Display	LCD+LED+APP			
Communication	Wi-Fi/Ethernet/4G(Optional)			
General Parameters				
Topology	Non-isolated			
Operating Temperature Range	-40°C to +60°C (50°C to 60°C 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]	590*380*241			
Weight [kg]	35.0			
Standard	EN 62109-1/2, EN 61000-6-1/2/3/4, IEC 62116, IEC 61727, IEC62183, PEA&MEA, NBR 16149, NBR 16150, PORTARIA N° 140,515, NRS097			

H2 8-20K Low Voltage Hybrid Inverter

SAJ's Low Voltage solution of hybrid inverter, allow to be compatible with both LFP and Lead-Acid Battery, support storing energy from diesel generator, provide a most cost efficiency solution for those entry-level market. H2 covers 8-20kW, 2MPPTs, three phase grid.



- ❑ 100% unbalanced output, max. output of each phase up to 50% rated power
- ❑ Colorful touch LCD, IP66 protection degree
- ❑ Max. 20A PV input current;DC/AC access oversizing up to 200%
- ❑ Max 350A fast charge/discharge current
- ❑ Support whole home backup function with up to 75 A bypass
- ❑ Max. 10 pcs parallel for on-grid and off-grid operation, Support multiple batteries parallel
- ❑ Integrated Intelligent energy management with generator, heat pump, solar system and smart load
- ❑ Ultralight for easy installation and space-saving

H2-8K-LT2 | H2-10K-LT2
H2-12K-LT2 | H2-14K-LT2 | H2-15K-LT2
H2-16K-LT2 | H2-18K-LT2 | H2-20K-LT2

Model	H2-8K-LT2	H2-10K-LT2	H2-12K-LT2	H2-14K-LT2	H2-15K-LT2	H2-16K-LT2	H2-18K-LT2	H2-20K-LT2
DC Input								
Max. PV Array Power [Wp]@ STC	16000	20000	24000	28000	30000	32000	36000	40000
Max. PV Input Power [W]	12800	16000	19200	22400	24000	25600	28800	32000
Max. PV Input Voltage [V]	1000							
MPPT Voltage Range [V]	160-950							
Start-up DC Input Voltage [V]	150							
Rated DC Input Voltage [V]	720							
Max. DC Input Current [A]	40/20				40/40			
Max. DC Short Circuit Current [A]	50/25				50/50			
No. of MPP Trackers/Strings per MPPT	2(2/1)				2(2/2)			
DC Current Injection	Integrated DC switch							
Battery Parameters								
Battery Type	Lead-acid or LiFePO4							
Battery Voltage Range [V]	40-60							
Max. Charging/Discharging Current [A]	195	210	240	270	280	320	350	350
Number of Battery Input	2							
Charging Strategy for Li-ion Battery	Self-adaption to BMS							
AC Output [On-grid]								
Rated AC Output Active Power [W]	8000	10000	12000	14000	15000	16000	18000	20000
Max. AC Output Apparent Power [VA]	8800	11000	13200	15400	16500	17600	19800	22000
Rated Output Voltage [Vac]	380/400							
Rated AC Output Current [A]	12.1	15.2	18.2	21.2	22.7	24.2	27.3	30.3
Max. AC Output Current [A]	13.4	16.7	20.1	23.4	25.1	26.7	30.1	33.4
Bypass Current [A]	75							
Power Factor Adjustment Range	0.8 leading to 0.8 lagging							
Rated AC Voltage/Range [V]	3L/N/PE 220/380, 230/400							
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65							
Total Harmonic Distortion [THDi]	<3%							
DC Current Injection	<0.5%In							
AC Output[Back-up]								
Max. AC Output Apparent Power [VA]	8000	10000	12000	14000	15000	16000	18000	20000
Max. AC Output Current [A]	12.2	15.2	18.2	21.3	22.8	24.3	27.3	30.4
Peak Power (Off Grid)	2 times of rated power, 10 S							
Rated AC Voltage/Range [V]	3L/N/PE 220/380, 230/400							
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65							
Swicth Time [ms]	< 10							
Total Harmonic Distortion [THDv] (@ Linear Load)	<3%							
System								
MPPT. Efficiency	> 99.9%							
Max. Efficiency	98.0%			98.5%				
Euro Efficiency	97.5%			98.0%				
Noise (dB)	< 55dB							
HMI	LED+LCD							
Communication	CAN, RS485, WIFI/4G/LAN(optional)							
Installation Style	Wall-mounted							
Protection								
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level							
Surge Protection Level	TYPE II(DC), TYPE II(AC)							
Environment								
Protection Degree	IP66							
Cooling	Smart Cooling							
Operating Temperature Range	- 30°C to +65°C (derating above +45°C)							
Operating Humidity	0-100%, non-condensing							
Operating Altitude	4000m (>3000m Power Derating)							
Over Voltage Category	DC Type II/AC Type III							
Mechanical Data								
Cabinet Size [W*H*D] [mm]	740*470*270							
Weight [kg]	53							
Standard								
Safety Standard	IEC/EN 62109-1/2, EN IEC62040							
EMC Standard	IEC/EN 61000-6-1/2/3/4							
Grid Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105							

B2 5.0kWh Low Voltage Battery



B2 low voltage battery allows for another solution, which for entry-level market, follow the same design language from H2 inverter, provides a stackable design for end-user to choose different capacity of battery system, from 10.0kWh to 20kWh.



- ❑ Wall-mounted or ground-mounted
- ❑ Remote firmware upgrade
- ❑ Modular design scalable up to 40kWh
- ❑ LiFePO4 batteries safe and reliable
- ❑ IP65 outdoor design
- ❑ Support 1C charge and discharge rate

B2-5.0-LV1 | B2-5.0-LV2

MODEL	B2-5.0-LV1	B2-5.0-LV2
Electrical Parameters		
Total Energy Capacity [kWh]	5.0	5.0
Usable Capacity [kWh]	4.5	4.5
Rated Voltage [V]	51.2	
Voltage Range [V]	44.8 ~ 57.6	
Depth Of Discharge [DOD]	≤ 90%	
Max. Charge Current [A]	100	100
Max. Discharge Current [A]	100	100
Parallel	Yes (≤8pcs)	
Physical Parameters		
Battery Type	LiFePO4	
Communication	CAN	
Operating Temperature Range	Charging: 0 ~ 50°C; Discharging: -10 ~ 50°C	
Cooling Method	Natural convection	
Ambient Humidity	0 ~ 95% non-condensing	
Ingress Protection	IP65	
Dimensions [H*W*D][mm]	330*730*210	
Weight [kg]	45.7	47.5
Warranty [Year]	Refer to the warranty card	
Applicable Standard	IEC 62619(Cell&Pack), EN 62477-1, EN 61000-6-1/2/3/4, UN38.3	

Residential Energy Storage System



B3 5.0kWh Low Voltage Battery

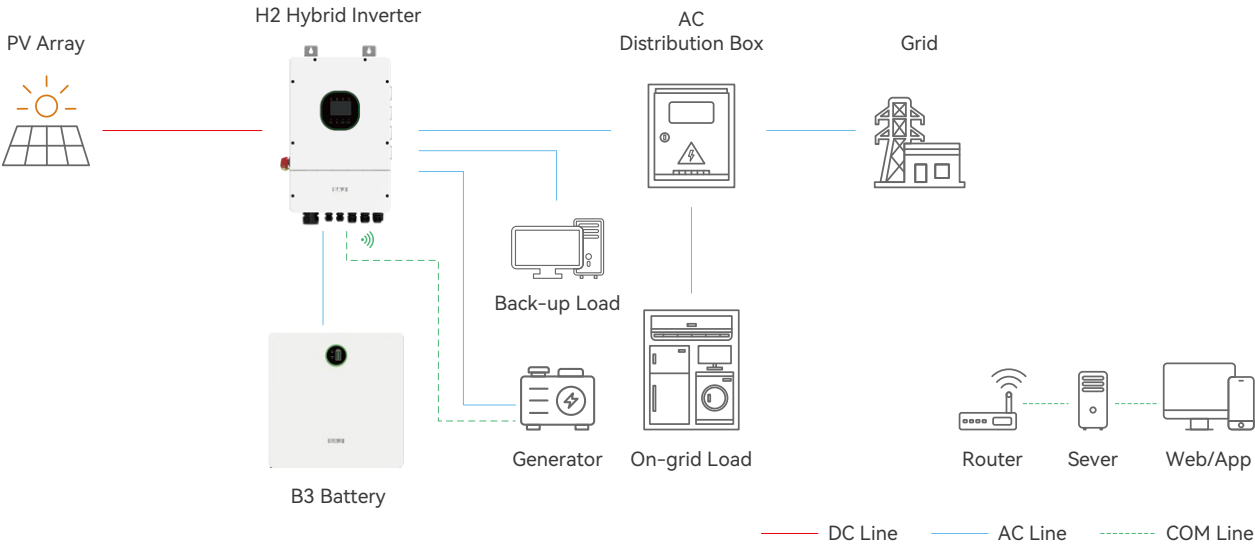
The B3 series low-voltage batteries in BESS can not only effectively reduce the household's dependence on the power grid, but also optimize the use of household energy, thereby reducing electricity bills.



- ❑ Wall-mounted or ground-mounted
- ❑ Modular design scalable up to 76.8kWh
- ❑ LiFePO4 batteries, safe and reliable
- ❑ Remote firmware upgrade(only SAJ inverter)
- ❑ Support 1C charge and discharge rate

B3-5.0-LV

MODEL	B3-5.0-LV
Electrical Parameters	
Total Energy Capacity [kWh]	5.12
Usable Capacity [kWh]	4.6
Rated Voltage [V]	51.2
Voltage Range [V]	45.6 ~ 56.2
Depth Of Discharge [DOD]	≤ 90%
Max. Charge Current [A]	100
Max. Discharge Current [A]	100
Parallel	Yes (≤15pcs)
Physical Parameters	
Battery Type	LiFePO4
Communication	CAN/RS485
Operating Temperature Range	Charging: 0 ~ 50°C; Discharging: -20 ~ 60°C
Cycle Life	≥6000 (25°C±2°C,0.5C/0.5C,80%DOD,70%EOL)
Cooling Method	Natural convection
Ambient Humidity	0 ~ 95% non-condensing
Altitude[m]	≤2000
Ingress Protection	IP21
Dimensions [H*W*D][mm]	500*442*142
Weight [kg]	42
Warranty [Year]	5/10(optional)
Applicable Standard	IEC 62619, UN38.3



M2 4-in-1 Micro Inverter

M2 series 4in1 Micro Inverter, provides solution for residential scenario, covered from 1.8–2.25 kW with 4 individual Mppts. With Macro Power in Micro Size slogan, product is more powerful with up to 2250kVA output, 20A DC current, integrated with 4G/Lora/WiFi communication dongle, suitable for different scenario, up to 97% efficiency, and more hassel-free with easy installation and 60V DC safety.

- Max. input current 20A
- 4 individual MPPTs
- Peak efficiency 97.0%
- Max output power reaching 2250VA
- Up to 25-year limited warranty



M2-1.8K-S4 | M2-2K-S4
M2-2.2K-S4 | M2-2.25K-S4

Model	M2-1.8K-S4	M2-2K-S4	M2-2.2K-S4	M2-2.25K-S4
Input Data (DC)				
Recommended PV Module Power (STC) Range [Wp]	400 ~ 700+			
Peak Power Tracking Voltage [V]	35 ~ 50			
Operating Voltage Range [V]	16 ~ 55			
Maximum Input Voltage [V]	60			
Start-up Voltage [V]	25			
Maximum Input Current [A]	20 x 4			
Back-Feed Current [A]	0			
Overvoltage Category	II			
Output Data (AC)				
Maximum Output Power [VA]	1800	2000	2200	2250
Nominal Output Current [A]	7.82	8.7	9.56	9.78
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]	> 0.99 default, 0.8 leading ~ 0.8 lagging			
Overvoltage Category	III			
Total Harmonic Distortion [THDi]	<3%			
Maximum Units per 10AWG Branch	4	3	3	3
Efficiency				
Peak Efficiency	97.00%			
CEC Efficiency	96.50%			
Mechanical Data				
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)			
Communication	Wi-Fi/Sub-1G/4G			
Cooling Method	Natural Convection			
Ambient Humidity	0-100% Non-condensing			
Altitude [m]	2000			
Noise [dBA]	< 20			
Ingress Protection	IP67			
Dimensions [W * H * D][mm]	333*225*40			
Weight [kg]	5.8			
Warranty [Year]	12 (standard), 25 (optional)			
Applicable Standard	EN62109-1/2, EN61000-6-1/2/3/4, EN50438, EN50549, C10/11, IEC62116, IEC61727, RD1699, CEI 0-16, CEI 0-21, AS4777.2, NBR16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1, RoHS, UL1741			

M2 2-in-1 Micro Inverter

M2 series 2in1 Micro Inverter, provides solution for residential scenario, covered from 0.6-1kW with 2 individual Mppts. Integrated with 4G/Lora/WiFi communication dongle, suitable for different scenario, up to 97% efficiency, and more hassel-free with easy installation and 60V DC safety.

- 2 individual MPPTs
- Peak efficiency 97.0%
- Integrated built-in Wi-Fi/Sub-1G/4G
- Support dynamic zero export
- Compact size, easy to install
- Up to 25-year limited warranty



M2-0.6K-S2 | M2-0.8K-S2 | M2-1K-S2

Model	M2-0.6K-S2		M2-0.8K-S2	M2-1K-S2
Input Data (DC)				
Recommended PV Module Power (STC) Range [Wp]			400 ~ 625+	
Peak Power Tracking Voltage [V]			35 ~ 45	
Operating Voltage Range [V]			16 ~ 55	
Maximum Input Voltage [V]			60	
Maximum Input Current [A]			16 x 2	
Back-Feed Current [A]			0	
Overvoltage Category			II	
Output Data (AC)				
Maximum Output Power [VA]	600		800	1000
Nominal Output Current [A]	2.6		3.5	4.4
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]	> 0.99 default, 0.8 leading ~ 0.8 lagging			
Overvoltage Category	III			
Total Harmonic Distortion [THDi]	<3%			
Maximum Units per 12AWG Branch	7		5	3
Efficiency				
Peak Efficiency	97.00%			
CEC Efficiency	96.50%			
Mechanical Data				
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)			
Communication	Wi-Fi/Sub-1G/4G			
Cooling Method	Natural Convection			
Ambient Humidity	0-100% Non-condensing			
Altitude[m]	2000			
Noise [dBA]	< 20			
Ingress Protection	IP67			
Dimensions [W * H * D][mm]	252*172*36			
Weight [kg]	3			
Warranty [Year]	12 (standard), 25 (optional)			
Applicable Standard	EN62109-1/2, EN61000-6-1/2/3/4, EN50438, EN50549, C10/11, IEC62116, IEC61727, RD1699, CEI 0-16, CEI 0-21, AS4777.2, NBR16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1, RoHS			

R5 On-Grid Inverter

R5 series is the SAJ's mature platform on on-gird solar inverter, with good efficiency, AFCI optional, quiet heat emission and stable remote control connection. R5 covers 0.7-8kW, 1-2MPPTs and single phase grid.



- ☐ Lightning protection, High precision leakage monitoring
- ☐ Low standby consumption High efficiency, high yield
- ☐ APP connection All data at real time
- ☐ Remote maintenance Remote configuration
- ☐ Quiet generation No noise pollution
- ☐ Intelligent & grid-friendly Active response to grid dispatch

R5-0.7K/1K/1.5K/2K/2.5K/3K-S1-15
R5-3K/3.6K/4K/5K/6K/7K/8K-S2-15

R6 On-Grid Inverter

R6 series is the SAJ's middle to high output platform on on-gird solar inverter, with good efficiency, AFCI optional, 110% AC overload and stable remote control connection. R6 covers 5-50kW, 2-4MPPTs and both single and three phase grid.



- ☐ AFCI (Optional)
- ☐ String current up to 16A
- ☐ Max. efficiency 98.8%
- ☐ Built-in AC & DC SPD
- ☐ 110% AC overloading
- ☐ Safety & reliability

R6-5K/6K/7K/8K/9K/10K-S2-X
R6-5K/6K/7K/8K/9K/10K-S3
R6-3K/4K/5K/6K/8K/10K/12K/15K-T2
R6-15K/17K/20K/22K/25K-T2-32
R6-25K/30K/33K/36K-T3-32
R6-36K/40K/50K-T4-32

Caro Series Home Wallbox

Caro Series Home Wallbox, a 2023 Red Dot Award winner, adds elegance to any charging location, be it at home, in business settings, or semi-public areas. Solar power-compatible for eco-friendly charging, its intelligent load management system reduces grid peak pressures. With eManager serving as the brain, you can encounter the optimized energy usage through seamless integration of PV and energy storage systems (H2+B2, HS2, AS2, HS3).



- Versatile**
 - Type 2 cable (7m as standard)
 - Wall-mount/Pole-mount installation
 - Work with new & existing storage systems
 - Authentication through RFID & APP
- Intelligent**
 - Multiple communication methods
 - Monitoring & control via elekeeper
 - Dynamic load balancing
 - Automatic phase switch
- PV Compatible**
 - 0 emission PV charging
 - Seamless integration with PV systems
 - Adjustable current for optimized PV usage
- Safe & Reliable**
 - 30mA Type A + 6mA DC
 - Relay-sticking protection
 - IP65 for both indoor and outdoor usage
 - 3 year warranty

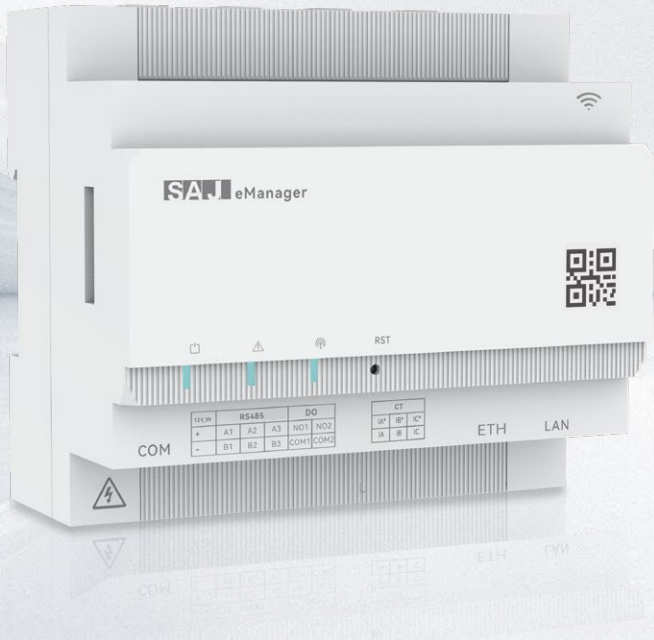
AC7000-AE-35 | AC011K-AE-35

Datasheet	Model	AC7000-AE-35	AC011K-AE-35
Electrical Specification	Power Supply	1P+N+PE	3P+N+PE
	Rated Voltage	230V AC	400V AC
	Rated Current [A]	32	16
	Frequency [Hz]	50/60	
	Rated Power [kW]	7	11
Basic Attributes	Product Standard	EU	EU
	Charge Connector	Type 2 Cable	
	Cable Length	7m Cable	
	Enclosure	PC	
Interactive Interface	Installation	Wall-mount/Pole-mount (Optional)	
	LED Indicator	Green/Yellow/Red	
	RFID Reader	Mifare ISO/IEC 14443 A	
Communication	Start Mode	Plug to Charge/RFID Card/App	
	RS485 (with EMS); Wi-Fi & Bluetooth & Ethernet	Standard	
	RS485 (with EMS); Wi-Fi & Bluetooth & 4G	Optional	
	Wi-Fi & RFID Frequency Bandwidth	2400~2483.5MHz (Wi-Fi); 13.553~13.567MHz (RFID)	
Safety	OCP	OCPP 1.6 Json	
	RCD	30mA Type A + 6mA DC	
	Ingress Protection	IP65	
	Impact Protection	IK08	
	Electrical Protection	Over current protection, Residual current protection, Surge protection, Over/Under voltage protection, Over/Under frequency protection, Over temperature protection	
	Certification	CE/CB/RoHS	
	Certification Standard	IEC 61851-1:2017; EN IEC 61851-1:2019; EN IEC 61851-21-2:2021; EN IEC 61000-6-1:2019; EN IEC 61000-6-3:2007+A1; EN 300 328 V2.2.2:2019; EN 300 330 V2.1.1:2017; EN 301 489-1 V2.2.3:2019; EN 301 489-3 V2.1.1:2019; EN 301 489-17 V3.2.0:2017; EN 62311:2020	
Working Environment	Warranty [Years]	3	
	Operation Temperature [°C]	-30 ~+50	
	Work Humidity	5%-95%	
Package	Work Altitude [m]	≤2000	
	Product Dimension [H*W*D][mm]	344*192*100	
	Package Dimension [L*W*H][mm]	430*330*235	
	Net Weight [kg]	3.8	3.9
	Gross Weight [kg]	5.2	5.6
	External Package	Carton	

eManager Energy Management System Module

eManager became the smart brain of SAJ eleX energy management system, to connect the BESS and whole smart home, manager the energy dispatch under AI management.

- ❑ Intelligent linkage heat pump
- ❑ Generation data metering & Intelligent energy scheduling
- ❑ Fast configuration, Enable inverter parallel fuctionation
- ❑ Integrated meter, built-in CT, removable interface easy installation
- ❑ Support 5G+2.4G WiFi bluetooth



eManager

Energy Manager	eManager
Connection to Portal	Ethernet or WiFi via router
Connection of PCS or Inverters	RS485 communication via RJ45 port on the PCS or inverters
Connection of Appliances for Energy Management	elekeeper APP or elekeeper Portal
Integrated Measuring Device	
Measurement Accuracy	≤1 %
Measuring Cycle [ms]	50
Max. Number of Devices on the System (excluding the SMA Energy Meter)	
Total Number of Devices in the System	up to 6 PCS or 9 inverters
Inputs (voltage and current)	
Nominal Voltage [V]	110 / 120 / 220 / 230 / 240
Frequency [Hz]	50 / 60
Nominal Current/limiting Current per Line Conductor [A]	63 (>63 A can be covered via external current transformers)
Connection Cross-section [mm²]	10 to 16 (for 63 A application)
Torque for Screw Terminals [Nm]	1.5
Ambient Conditions in Operation	
Ambient Temperature [°C]	–25 to +40
Storage Temperature Range [°C]	–25 to +70
Protection Class (according to IEC 62103)	II
Degree of Protection (according to IEC 60529)	IP20
Operation Altitude Range [m]	0 to 2000
General Data	
Dimensions [W*H*D] [mm]	108*105*67
Top Hat-rail Width Units	35mm DIN Rail
Weight [kg]	0.5
Mounting Location	Switch or meter cabinet
Mounting Type	Top-hat rail mounting
Status Display	3 x LED
Self-consumption [W]	< 3
Features	
Operation and Visualization	via elekeeper APP or elekeeper Portal
Update Function for eManager and the Connected SAJ Devices	Remote update via elekeeper Portal or bluetooth connection update via elekeeper APP
Warranty [years]	3

SBU Smart Backup Unit



SBU easy installation, and built-in 200A relay, support whole home backup, integrated generator interface without external ATS, and 4 inverters in parallel.



- ❑ Support manual bypass control
- ❑ Maximum 200A load access capacity
- ❑ Support up to 4 inverters connected



SBU-200

MODEL	SBU-200
GRID	
Max. Continuous AC Input Current (bypass mode) [A]	200
Max. Continuous AC Output Current (on-grid mode) [A]	160
Nominal Grid Voltage [V]	120/240
Nominal AC Frequency [Hz]	60
ON/OFF Grid Switchover Time [ms]	<500
LOAD	
Max. Output Current [A]	200
Continuous AC Output Current [A]	160
Nominal Output Voltage [V]	120/240
Inverter	
Number of Inverter Inputs	4
Max. Continuous Inverter Input Current	50A*4
Inverter Input Circuit Breaker	63A*4
Inverter Nominal Voltage [V]	120/240
Generator	
Max. Rated Generator Power [kVA]	21600
Max. Continuous Input Current [A]	90
Generator Dry Contact Relay Specification	250V/5A
Other Features	
Communication to Inverter	RS485/CAN
Manual Control Bypass Switch	Yes
Cooling	Natural cooling
Noise	<35dB(@1m)
Operating Temperature Range	-25°C~+60°C
Ingress Protection	NEMA 4x (IP65)
Operating Humidity (RH)	UP to 100%
Max. Elevation [m]	3000
Mounting Method	Wall Mounting
Weight [kg]	12.5 (28 lbs)
Dimensions [H*W*D][inch]	22.2*18.5*6.7
Warranty [years]	10
Safety/EMC Standard	UL 1741, FCC Part15B, CSA C22.2, No.107.1

Automatic Transfer Switch Panel

ATS allows end-user to automatic switch between grid and bakcup, with 63A current design, supported for whole home backup.



- Easy installation and maintenance
- Automatic/manual mode
- Motor operation control
- Insulation material safer to use

ATS1-T63-A | ATS1-T63-B

Model	ATS1-T63-A		ATS1-T63-B
AC Input Data (Grid)			
Grid Connection	Three Phase		
Rated AC Voltage/Range [V]	380,400,415/342 ~ 440		
Rated Input Frequency [Hz]	50/60		
Max. Input Current [A]	63		
AC Input Data (Inverter)			
Inverter Connection	Three Phase		
Rated AC Voltage/Range [V]	380,400,415/312 ~ 485		
Max. Input Current [A]	63		
Rated Output Frequency [Hz]	50/60		
Compatible Inverter	H2-5/6/8/10K-T2; H2-15/20/25/30K-T3 HS2-5/6/8/10K-T2-X HS3-5/6/8/10/12K-T2-W/4G-EX		
AC Output Data (Backup)			
Grid Connection	Three Phase		
Rated AC Voltage/Range [V]	380,400,415/342 ~ 440		
Rated Output Frequency [Hz]	50/60		
Max. Output Current [A]	63		
Switching Time [ms]	50		
Mechanical Data			
Operating Temperature Range	-25°C to +45°C		
Ambient Humidity	0-95% Non-condensing		
Altitude [m]	3000		
Protective Class	Class I		
Overvoltage Category	III		
Ingress Protection	IP54		
Dimensions [W * H * D][mm]	520*518*141		
Weight [Kg]	15.8		
Warranty [Year]	2		
Applicable Standard	IEC/EN 61439		
Accessory	eManager Module	Smart Meter	

elekeeper, One-stop Energy Hub

The elekeeper is an energy management system that integrates plant design, device management, energy monitoring, energy dispatching, efficiency analysis, cloud-edge coordination, and services. The system offers features such as predictive AI scheduling, battery diagnostics, energy statistics, efficiency calculations, EMS control strategies, plant monitoring, alarm management, report generation, SaaS configuration, and maintenance services. It provides efficient and high-quality energy services for both home and commercial scenarios.



Get it on
Google Play



Download on the
App Store



Smart Energy



Smart Residential Energy Management System

- AI Saving
- Smart home management
- Fault and alarm management
- Energy statistics and analysis
- Plant and device monitor

Smart C&I energy management system

- EMS intelligent scheduling
- Multi-scenario Energy applications
- Economic benefit calculation
- Cloud & End collaborative management
- Battery diagnosis and analysis

Smart Services



Smart energy service platform

- Plant health inspection
- Device installation diagnosis
- Digital on-site service
- AI proactive operation and maintenance
- Energy stewardship service

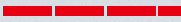
Open Ecosystem



Energy Open Platform

- VPP Ready
- Data compliance and openness
- Flexible and efficient access
- Intelligent ecological integration
- Provide industry solutions based on R&D achievement

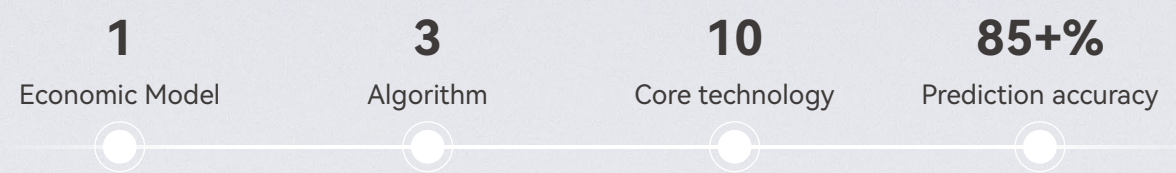
AI Saving 20% Solution



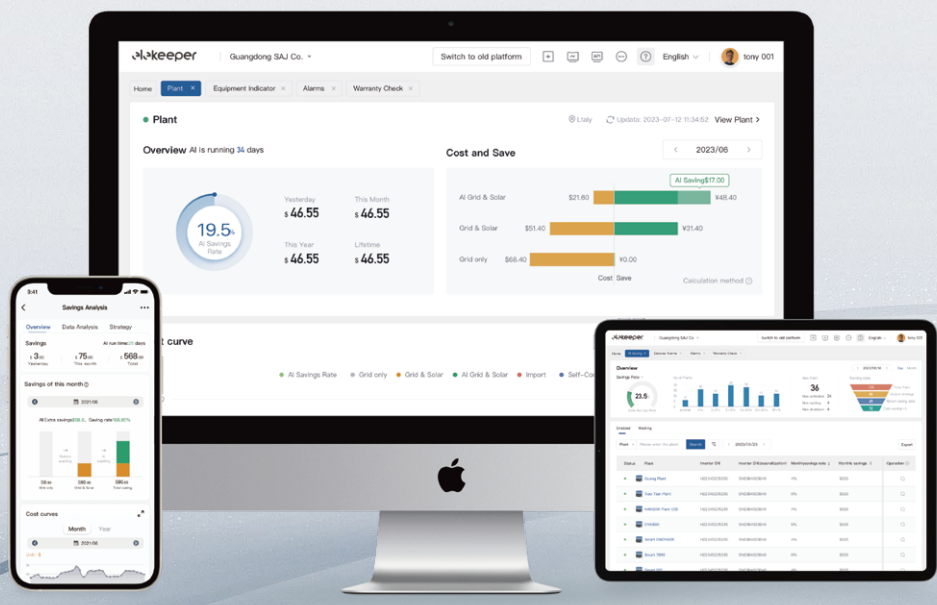
20+%

Average percentage of savings

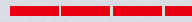
- ✓ Prediction accuracy of over 80%
- ✓ Tariff spreads of €0.2 or more
- ✓ More than 10 kWh of electricity per day
- ✓ Installed with PV and energy storage systems
- ✓ A large amount of empirical case data



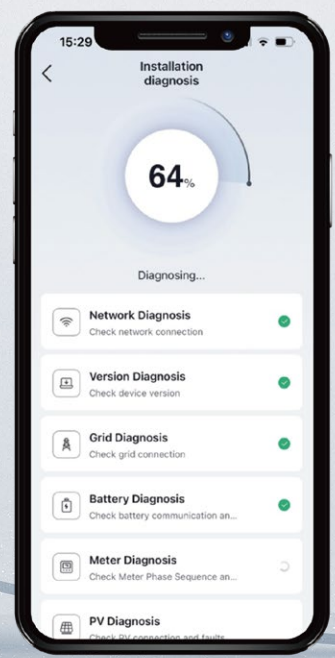
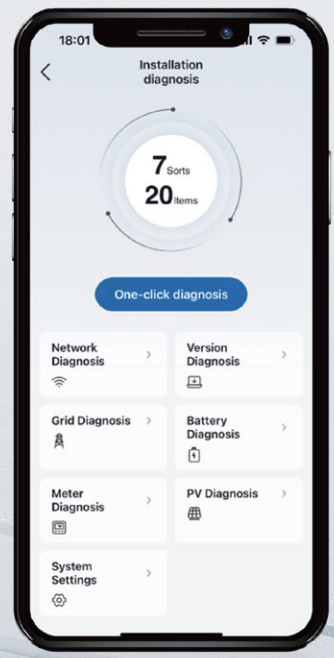
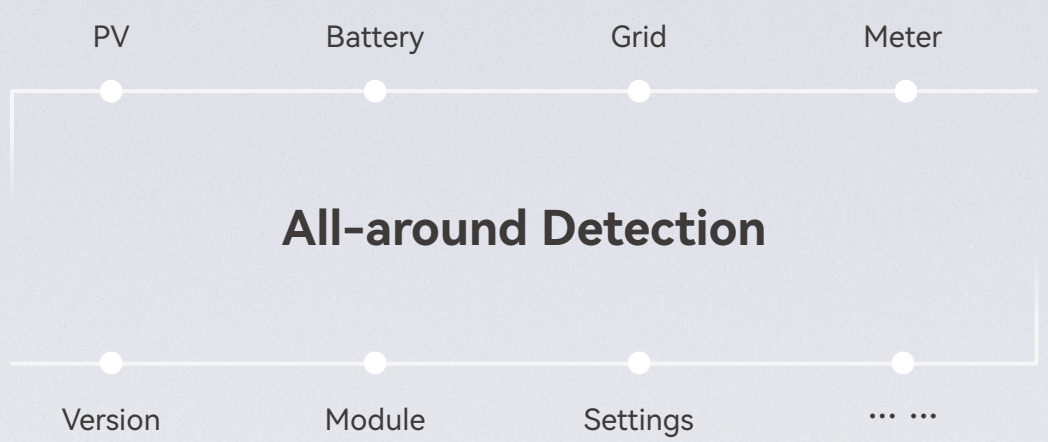
Maximizing customer revenue through AI algorithms



One Click Diagnostic Solution



7 Diagnostic Modules, 20 Comprehensive: One-click scan for full-system coverage, easily detect and resolve potential installation problems, save time and effort, and deliver an enhanced customer experience.



Project Application



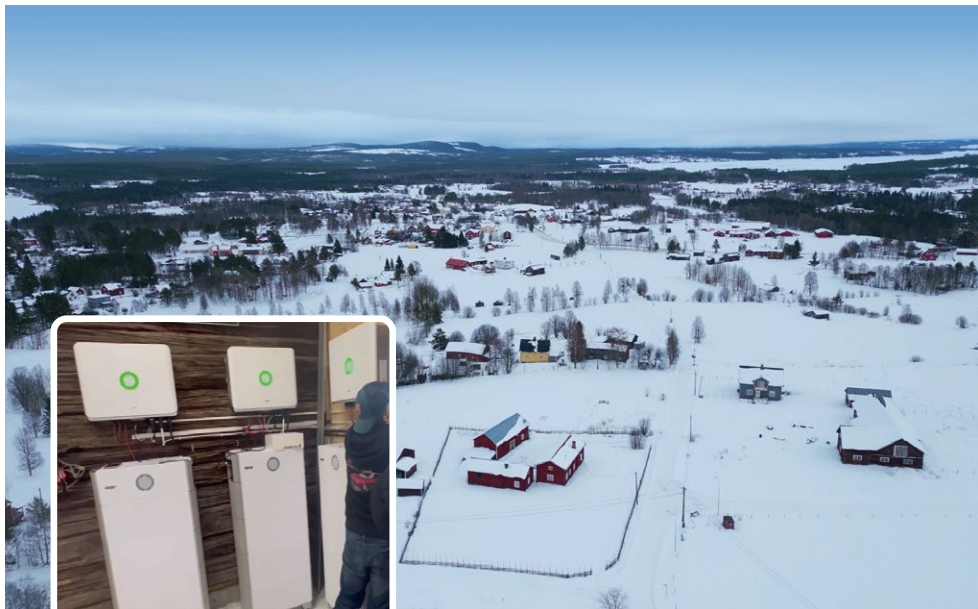
📍 Bristol, UK
All-in-One Hybrid Energy Storage (HS3 Series)



Hague, Netherlands 📍
All-in-One Hybrid Energy Storage (HS2 Series)



📍 São Paulo, Brazil
Microinverter (M2 Series)



📍 Jämtlands län, Sweden
Hybrid Energy Storage Inverter
and Battery (H2+B2 Series)



Melbourne, Australia 📍
Hybrid Energy Storage Inverter and Battery (H2+B2 Series)