



RESIDENTIAL ENERGY STORAGE SOLUTIONS

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Products are continuously updated and parameters are just for references.

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H2

SINGLE PHASE SERIES

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



Easy setting of
smart working modes



Battery supported
fast charging/ discharging

AFCI AFCI (optional)

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

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				
Nominal DC Voltage [V]	360				
Start Voltage [V]	100				
Max. DC Input Current [A]	16 / 16				
No. of MPPT	2				
No. of Strings per MPPT	1/1				
Battery Input					
Battery Type	Lithium battery				
Battery Voltage Range [V]	85~450				
Max. 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. AC 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
Nominal AC Voltage [V]	L/N/PE, 220, 230				
Grid Frequency/ Range [Hz]	50 / 60 ± 5				
Power Factor [cos ϕ]	0.8 leading~0.8 lagging				
Total Harmonic Distortion [THDi]	<3% (at nominal power)				
AC Output [Back-up Mode]					
Rated Output Power [W]	3000	3680	4000	5000	6000
Max. Output Current [A]	13.6	16.7	18.2	22.7	27.3
Rated Output Voltage [V]	L/N/PE, 220, 230				
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 Input	MC4				
Battery	Quick Connector				
AC Output	Plug-in connector				
Display	LED+APP (Bluetooth)				
Communication Port	CAN+RS485+DRM+CT+RS232				
Communication Mode	Wi-Fi/ Ethernet/ 4G(Optional)/ PLC(Optional)				
General Data					
Topology	Transformerless				
Operating Temperature Range	-40°C to +60°C				
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				
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				

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

H2

THREE PHASE SERIES

H2-5K/ 6K/ 8K/ 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 supported
fast charging/ discharging

100% Supported 100%
three phase voltage
imbalance

UPS With UPS function
switch time < 10ms

110% 110% AC
overloading

MODEL	H2-5K-T2	H2-6K-T2	H2-8K-T2	H2-10K-T2
DC Input				
Max.PV Array Power [Wp]@STC	7500	9000	12000	15000
Max. DC Voltage [V]	1000			
MPPT Voltage Range [V]	180~900			
Nominal 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 Data				
Battery Type	Lithium battery			
Voltage Range [V]	180~600			
Max. 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. AC 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
Nominal AC Voltage [V]	220/ 380Vac, 230/ 400Vac, 3L/ N/ PE			
Rated Grid Frequency / Range [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 [W]	5000	6000	8000	10000
Max. Output Current [A]	8.0	9.6	12.8	15.9
Rated Output Voltage [V]	220/ 380Vac, 230/ 400Vac, 3L/ N/ PE			
Rated Output Frequency [Hz]	50/ 60 ± 5			
Total Harmonic Distortion of Voltage	<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			
Ingress Protection	IP65			
Operating Temperature Range	-40°C to +60°C			
Ambient Humidity	0~100% No Condensing			
Altitude	4000m (>3000m power derating)			
Noise[dBA]	<30			
Cooling Method	Natural Convection			
Dimensions [H*W*D][mm]	433*549*207			
Weight [kg]	25			
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

Lithium Battery

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



Flexible capacity options
4.8kWh to 24.0kWh

LFP

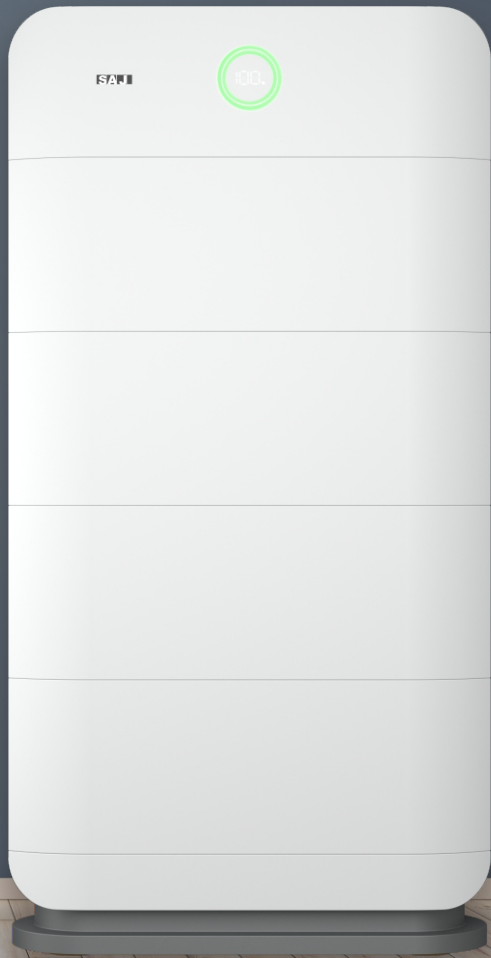
Excellent safety of cobalt
free LiFePO4 battery



Remote firmware upgrade



Easy installation with modular
and stacked design



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
Energy Capacity [kWh]	4.8	9.6	14.4	19.2	24.0
Usable Capacity [kWh]	4.32	8.64	12.96	17.28	21.60
Battery Module	BU2-4.8-HV1 (96V 50Ah 4.8kWh)				
Number of Modules	1	2	3	4	5
Nominal Voltage [V]	96	192	288	384	480
Operating Voltage [V]	84-108	168-216	252-324	336-432	420-540
Dimension [H*W*D][mm]	686.5*780*250	966*780*250	1245.5*780*250	1525*780*250	1804.5*780*250
Depth of Discharge (DOD)	90%				
Max Charge/ Discharge current [A]	40				
Communication Port	CAN				
Operation Temperature	-20°C to 55°C				
Relative Humidity	5-65%				
Operating Altitude [m]	2000				
IP Protection	IP65				
Mounting	Wall-Mounted/ Ground-Mounted				
Certification	IEC62619 (Cell&Pack)/ CE/ ROHS/ UN38.3)				
Warranty	10 Years (Performance Warranty)				

Residential Energy Storage System

