

HS3/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.



- ❑ 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

HS3-5K-S2-W/G-P-BE

Module	HS3-5K-S2-W/G-P-BE
DC Input	
Max. PV Array Power [Wp]@STC	10000
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]	5000
Max. Apparent Power [VA]	5000
Rated Output Current [A]@230Vac	21.7
Max. Output Current [A]	21.7
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]	15.8/13.9
Scalability	BU3-5.0-TV2-PRO (up to 8 battery modules)
AC Output [Back-up]	
Rated Output Power [W]	5000
Peak Output Apparent Power [VA]	6000,60s
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]	420*695*170
Inverter Weight [kg]	27.5
Battery Weight [kg]	53.0
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

Notes: Meaning of letters in model numbers and data sheets: W=Wi-Fi G=4G B=Basic model P=Professional model.