

# HS3 Single Phase All-in-One Solution

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



- ❑ 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 batter

HS3-5K-S2-W-PX-AU | HS3-6K-S2-W-PX-AU

MODEL	HS3-5K-S2-W-PX-AU					HS3-6K-S2-W-PX-AU				
<b>DC Input</b>										
Max. PV Array Power [Wp]@STC	10000					12000				
Max. DC Voltage [V]	600									
MPPT Voltage Range [V]	90 ~ 550									
Operating Voltage Range [V]	90-600									
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									
<b>AC Output/Input [On-grid]</b>										
Rated AC Power [W]	4999					6000				
Rated Apparent Power [VA]	4999					6000				
Max. Apparent Power [VA]	4999					6000				
Rated Output Current [A]@230Vac	21.7					26.1				
Max. Output Current [A]	21.7					26.1				
Max. Input Current [A]@230Vac	32.0									
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%									
<b>Battery Parameters</b>										
Battery Type	LiFePO4									
Battery Voltage Range[V]	380 ~ 500									
Max. Charging Current [A]	15.8									
Max. Discharging Current [A]	15.2					16.8				
Battery Rated Energy [kWh]	x=1	x=2	x=3	x=4	x=5	x=6	x=7	x=8	x=9	x=10
	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0
Battery Usable Energy [kWh]	x=1	x=2	x=3	x=4	x=5	x=6	x=7	x=8	x=9	x=10
	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0
Scalability	BU3-5.0-TV1/2-PRO-AU (up to 10 battery modules)									
<b>AC Output [Back-up]</b>										
Rated Output Power [W]	5000					6000				
Peak Output Apparent Power [VA]	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%									
<b>Efficiency</b>										
Euro Efficiency	97.2%									
Max. Efficiency	97.6%									
<b>Protection</b>										
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 (AFD)									
AFCI Protection	Integrated									
<b>Interface</b>										
PV Connection	MC4/D4									
AC Connection	Plug-in connector									
Battery Connection	Quick connector									
Display	LED+APP									
Communication	Wi-Fi/Ethernet									
<b>General Parameters</b>										
Topology	Non-isolated									
Operating Temperature Range	-30°C ~ +50°C									
Cooling Method	Natural Convection									
Relative Humidity Range	5-95% Non-condensing									
Max. Operating Altitude [m]	3000									
Noise [dBA]	<35									
Overvoltage Category	II (DC), III (AC)									
Protective Class	I									
Ingress Protection	IP65									
Inverter Dimensions [H*W*D] [mm]	400*695*170									
Battery Dimensions [H*W*D] [mm]	370*695*170									
Inverter Weight [kg]	26.2									
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									
Warranty [Year]	Refer to the warranty policy									