

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]	Battery with base: 420*695*170; Battery without base: 370*695*170			
Inverter Weight [kg]	27.5			
Battery Weight [kg]	Battery with base: 53; Battery without base: 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			