

HS3 Three 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
- ❑ Supported 100% three phase voltage imbalance
- ❑ 170mm thick, blend in with its surrounding
- ❑ Self-heating and fire-protection system inside the batter

HS3-5K-T2-W-PX-AU | HS3-8K-T2-W-PX-AU
HS3-10K-T2-W-PX-AU

MODEL	HS3-5K-T2-W-PX-AU				HS3-8K-T2-W-PX-AU				HS3-10K-T2-W-PX-AU		
DC Input											
Max. PV Array Power [Wp]@STC	10000				12000				15000		
Max. DC Voltage [V]					1000						
MPPT Voltage Range [V]					180-900						
Operating Voltage Range [V]					180-1000						
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				8000				10000		
Rated Apparent Power [VA]	5000				8000				10000		
Max. Apparent Power [VA]	5500				8800				11000		
Rated Output Current [A]@230Vac	7.2				11.6				14.5		
Max. Output Current [A]	8.0				12.8				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]	30										
Max. Discharging Current [A]	15.8			25				30			
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)										
AC Output [Back-up]											
Rated Output Power [W]	5000				8000				10000		
Peak Output Apparent Power [VA]	10000, 60s				16000, 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											
Euro Efficiency	97.60%										
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										
DC Surge Protection	Type II										
AC Surge Protection	Type II										
Anti-islanding Protection	Integrated (AFD)										
AFCI Protection	Integrated										
Interface											
PV Connection	MC4/D4										
AC Connection	Plug-in connector										
Battery Connection	Quick connector										
Display	LED+APP										
Communication	Wi-Fi/Ethernet										
General Parameters											
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]	450*695*170										
Battery Dimensions [H*W*D] [mm]	370*695*170										
Inverter Weight [kg]	34.0										
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										
Warranty [Year]	Refer to the warranty policy										

Manufacturer: Guangzhou Sanjing Electric Co., Ltd.

Made in China

Products are continuously updated and parameters are just for references.

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