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 battery

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

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Module	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	29.0		
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 Depth of Discharge	100%		
Battery Voltage Range[V]	380~500		
Battery Nominal DC Voltage [V]	450		
Max. Charging/Discharging 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]	7500,60s	12000,60s	15000,60s
Rated Output Apparent Power [VA]	5500	8800	11000
Rated Output Current [A]@230Vac	7.2	11.6	14.5
Power Factor [cos ϕ]	0.8 leading ~ 0.8 lagging		
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			
Max. Efficiency	98.0%		
Euro 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		
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℃ ~ +50℃		
Cooling Method	Natural Convection		
Relative Humidity Range	5-95% Non-condensing		
Max. Operating Altitude [m]	3000		
Noise [dBA]	<35		
Overvoltage Categor	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±1		
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.