

HS3/AS3 Three 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. HS3 covers from 5-12kW, 2 MPPTs and three phase grid.



Module DC Input	HS3-5K-T2-W/G-PX	HS3-6K-T2-W/G-PX	HS3-8K-T2-W/G-PX	HS3-10K-T2-W/G-PX	HS3-12K-T2-W/G-PX		
Max. PV Array Power [Wp]@STC	10000	12000	12000	15000	15000		
	10000	12000	12000	15000	15000		
Max. DC Voltage [V]			1000				
MPPT Voltage Range [V]			180 ~ 900				
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	6000	8000	10000	12000*		
Max. Apparent Power [VA]	5500	6600	8800	11000***	12000*		
Rated Output Current [A]@230Vac	7.2	8.7	11.6	14.5	17.4**		
Max. Output Current [A]	8.0	9.6	12.8	15.9***	17.4**		
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 Voltage Range[V]			380~500				
Max. Charging/Discharging Current [A]	30/15.8	30/18.4	30/25	30/30	30/30		
Scalability	00,10.0		-TV2-PRO (up to 8 battery		00/00		
AC Output [Back-up]		D00 0.0		modulesy			
Rated Output Power [W]	5000	6000	8000	10000	12000		
Peak Output Apparent Power [VA]							
	7500,60s	9000,60s	12000,60s	15000,60s	15000,60s		
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							
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	Туре II						
AC Surge Protection	Туре 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				ur <i>y</i>			
Topology			Non-isolated				
Operating Temperature Range	-30°C ~ +50°C						
	-30 C ~ +50 C Natural Convection						
Cooling Method							
Relative Humidity Range		0-100% Non-condensing					
Max. Operating Altitude [m]	3000						
NUMBER DIDAT	<35						
Noise [dBA]							
Ingress Protection			IP65				
Ingress Protection Inverter Dimensions [H*W*D] [mm]							
Ingress Protection			IP65				
Ingress Protection Inverter Dimensions [H*W*D] [mm]			IP65 450*695*170				
Ingress Protection Inverter Dimensions [H*W*D] [mm] Battery Dimensions [H*W*D] [mm]			IP65 450*695*170 420*695*170				
Ingress Protection Inverter Dimensions [H*W*D] [mm] Battery Dimensions [H*W*D] [mm] Inverter Weight [kg]	EN 62109-1/2, EN 6100	0-6-2/4, EN 50438, EN 505	IP65 450*695*170 420*695*170 34 53.0	61727, RD 1699, RD 413, UN	IE 206006, UNE 206007,		

Charger Model	СU2-11К-Т-І
Output Voltage [V AC]	400, ± 20%
Max. output Current [A]	16
Rated Output Power [kW]	11
Power Consumption (standby) [W]	5
Dimension [mm] [H*W*D]	160*695*170
Weight [kg]	9
Working Temperature	−30°C to +50°C
Ambient Humidity	5–95% non-condensing

* For Ireland HS3-12K-T2-W/4G-P Rated AC Power [W] and Max.Apparent Power [VA] is 11000

** For Ireland HS3-12K-T2-W/4G-P Rated Output Current [A] @230Vac and Max. Output Current [A] is 15.9

*** For Belgium HS3-10K-T2-W/4G-P Max. Apparent Power [VA] is 10000, HS3-10K-T2-W/4G-P Max. Output Current [A] is 14.5