

# HS2 Three Phase All-in-One Solution

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SAJ's first all-in-one solution for residential energy storage system, integrated PCS, BMS and battery, with module and IP65 design, no external wire, suitable for outdoor easy installation. HS2 covers from 5-10kW, 2 MPPTs and three phase grid.



- ❑ AC retrofit & easy installation
- ❑ Max 16A input current to better match high power panel
- ❑ Modular design and expandable up to 25.0kWh
- ❑ With UPS function switch time  $\leq 10\text{ms}$
- ❑ IP65 outdoor design
- ❑ Supported 100% three phase voltage imbalance

HS2-5K-T2-X | HS2-6K-T2-X  
HS2-8K-T2-X | HS2-10K-T2-X | HS2-10K-T2-B-X

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MODEL	HS2-5K-T2-X	HS2-6K-T2-X	HS2-8K-T2-X	HS2-10K-T2-X	HS2-10K-T2-B-X
<b>DC Input</b>					
Max. PV Array Power [Wp]@ STC	7500	9000	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]			16/16		
Max. DC Short Circuit Current [A]			19.2/19.2		
No. of MPPT			2		
<b>Battery Parameters</b>					
Battery Type			LiFePO4		
Battery Voltage Range [V]			180 ~ 600		
Max. Charging/ Discharging Current [A]			30/30		
Scalability			BU2-5.0-HV1/5 (up to 5 battery modules)		
<b>AC Output [On-grid]</b>					
Rated AC Power [W]	5000	6000	8000	10000	10000
Max. Apparent Power [VA]	5500	6600	8800	11000	10000
Rated Output Current [A]@ 230Vac	7.2	8.7	11.6	14.5	14.5
Max. Output Current [A]	8.3	10.0	13.3	16.7	15.2
Current Inrush [A]			52.0		
Max. AC Fault Current [A]			45.0		
Max. AC Over Current Protection [A]	20.8	25.0	33.3	41.8	41.8
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%			
<b>AC Input [On-grid]</b>					
Rated AC Voltage/ Range [V]		3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485			
Rated Input Frequency [Hz]		50,60			
Max. Input Current [A]@ 230Vac	14.5	17.4	23.2	29.0	29.0
<b>AC Output [Back-up]</b>					
Max. Output Power [VA]	5000	6000	8000	10000	10000
Max. Output Current [A]	8.0	9.6	12.8	15.9	15.9
Peak Output Apparent Power [VA]	10000, 60s	12000, 60s	16000, 60s	16500, 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%			
<b>Efficiency</b>					
Max. Efficiency			98.0%		
Euro Efficiency			97.6%		
<b>Protection</b>					
Battery Input Reverse Polarity Protection			Integrated		
Over load Protection			Integrated		
AC Short Circuit Current Protection			Integrated		
DC Surge Protection			Integrated		
AC Surge Protection			Integrated		
Anti-islanding Protection			Integrated		
AFCI Protection			Optional		
RSD Protection			Optional		
<b>Interface</b>					
PV Connection			MC4/D4		
AC Connection			Plug-in connector		
Battery Connection			Quick connector		
Display			LED+APP		
Communication			Wi-Fi/Ethernet/4G (Optional)		
<b>General Parameters</b>					
Topology			Non-isolated		
Operating Temperature Range			-10°C to +50°C (>45°C derating)		
Cooling Method			Natural Convection		
Ambient Humidity			0-100% Non-condensing		
Altitude			4000m (>3000m Power Derating)		
Noise [dBA]			<35		
Ingress Protection			IP65		
Dimensions [H*W*D] [mm]			450*626*365		
Weight [kg]			32		
Warranty [Year]			5/10/15/20		
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				