

CHS2

C & I ALL-IN-ONE ENERGY STORAGE SOLUTIONS



CHS2 is suitable for large residential or small industrial and commercial scenarios. This inverter can support 200% photovoltaic over-allocation, which can supply power to loads and charge batteries at the same time, effectively reducing additional grid demand and strengthening the independence of green energy. CHS2 also adopts high-performance, safe and reliable industrial and commercial 280Ah lithium iron phosphate batteries, supporting 0.5C charge and discharge, and supports a variety of application modes such as self-consumption, time-of-use electricity price and backup power, which greatly meets daily use scenarios. The inverter integrates dry contacts, which can flexibly control external loads such as heat pumps to optimize energy consumption. Compatible with generator access, CHS2 is also suitable for scenarios where the power grid is unstable or there is no power grid, such as micro power grids and isolated islands.









59800	00000	80000	100000	126000	
39000	60000		100000	120000	
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			6*56.5		
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			2	•	
		LiEoDO/			
		140			
20000	30000	40000	50000	63000	
				63000	
				91.3	
				91.3	
43.3				71.3	
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		130			
29900	33000	44000	55000	63000	
				75000,5s	
		-570			
29900	30000	40000	50000	63000	
				91.3	
10.0				7.1.0	
		≥98.0%			
97.3%					
96.0%					
		Integrated			
		Integrated			
Integrated					
		Optional			
1					
	W	i-Fi/Ethernet/CAN/RS4	85		
Transformerless					
Air Conditioner					
)		
		2000	:		
		IP55, IP66(Inverter)			
	1050(57.3kWh)/1150		Wh)/1350(100.3kWh)		
5/10					
VDE/105 JEC/17	27/K2114 \/DF012/ ^		0549-1, G98, G99, C10-	11 LINE217002	
VIDEATUS TELET					
	4*50	4*45 4*56.5 2 29900 30000 29900 33000 43.3 43.5 43.3 47.9 29900 33000 29900 45000,5s 29900 30000 43.3 43.5 W -30°C to -1	1000 180 ~ 850 600 200 4*45	1000	



CH2 SERIES **HYBRID SOLAR INVERTER**



Max 22.5A input **22.5** A current to better match high power panel

200% 200% PV oversizing



AC retrofit & easy installation

Parallel connection up to 10PCS, easy for expansion

UPS With UPS function switch time ≤ 10ms

100% 100% unbalanced output



Type II AC & DC surge protection



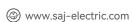
Generator compatibility











MODEL	CH2-29.9K-T4	CH2-30K-T4	CH2-40K-T5	CH2-50K-T6	CH2-63K-T	
DC Input			I	T		
Max. PV Array Power [Wp]@STC	59800	60000	80000	100000	126000	
Max. DC Voltage [V]			1000			
MPPT Voltage Range [V]	180~850					
Rated DC Voltage [V]			600			
Start Voltage [V]	200					
Max. DC Input Current [A]	4*45		5*45	6*45		
Max. DC Short Circuit Current [A]	4*56.5		5*56.5	6*56.5		
Number of Strings per MPPT	2 2			2		
Battery Parameters						
Battery Type			LiFePO4			
Battery Voltage Range [V]			180 ~ 800			
Max. Charging/Discharging Current [A]			3*50			
AC Output [On-grid]			I	I	I	
Rated AC Power [W]	29900	30000	40000	50000	63000	
Max. Apparent Power [VA]	29900	33000	44000	55000	63000	
Rated Output Current [A]@230V	43.3	43.5	58.0	72.5	91.3	
Max. Output Current [A]@230V	43.3	47.9	63.8	79.8	91.3	
Rated AC Voltage/Range [V]		;	3+N+PE/ 3+PE, 380/ 40	0		
Rated Output Frequency/Range [Hz]			50,60/45 ~ 55,55 ~ 65			
Power Factor [cos φ]			0i - 1 - 0c			
Total Harmonic Distortion [THDi]			<3%			
AC input [On-grid]						
Rated AC Voltage/Range [V]		3+1	N+PE/ 3+PE, 380/ 400/	415		
Rated Output Frequency [Hz]			50,60			
Max. Input Current [A]			150			
AC Output [Back-up]						
Max. Output Power [VA]	29900	33000	44000	55000	63000	
Peak Output Apparent Power [VA]	29900	45000,5s	60000,5s	75000,5s	75000,5s	
Rated AC Voltage/Range [V]	3+N+PE/3+PE,380/400					
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65					
Output THDv (@ Liner Load)			<3%			
AC Input [Generator]						
Max. Input Power [W]	29900	30000	40000	50000	63000	
Max. Input Current [A]@230V	43.3	43.5	58.0	72.5	91.3	
Rated Input Voltage [V]	3+N+PE/3+PE,380/400					
Rated Input Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65					
Efficiency						
Max. Efficiency	≥98.0%					
Euro Efficiency	97.3%					
Max. Battery to AC Efficiency	96.0%					
Protection						
PV Reverse Polarity Protection			Integrated			
Anti-islanding Protection	Integrated					
AC Overcurrent Protection	Integrated					
AC Short Circuit Protection	Integrated					
AC Overvoltage Protection	Integrated					
DC Switch	Integrated					
DC Surge Protection						
AC Surge Protection	" 					
AFCI	Integrated					
RSD	Optional					
General Parameters			Special			
Communication		\/\	i-Fi/Ethernet/CAN/RS4	85		
Topology		***	Transformerless			
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)					
Cooling Method						
Ambient Humidity	Smart Fan Cooling					
		U)-100% Non-condensin	9		
Altitude [m]			3000			
Ingress Protection	IP66					
Dimensions [H*W*D] [mm]			630*630*290			
Weight [kg]	76					
	1		5/10			
Warranty [Year] Standard				P-1, G98, G99, C10-11, U		



CB2 SERIES C & I ENERGY STORAGE BATTERY SYSTEM





Adopting IP55 outdoor cabinet design, easy to transport and install



Adopting high-performance 280Ah lithium iron phosphate battery, safe and reliable



Supporting 4 clusters in parallel, flexible in expansion



All-in-one system design, supporting inverter wall-mounted



Integrating a variety of sensors, and data viewable in the monitoring platform



Integrating aerosol fire extinguishing unit











MODEL	CB2-57.3-HV5	CB2-71.6-HV5	CB2-85.9-HV5	CB2-100.3-HV5	
Rated Energy [kWh]	57.3	71.6	85.9	100.3	
Usable Energy [kWh]	51.5	64.4	77.3	90.2	
Rated Capacity [Ah]	280	280	280	280	
No. of Modules	4	5	6	7	
Nominal Voltage [V]	204.8	256	307.2	358.4	
Voltage Range [V]	179.2~230.4	224~288	268.8~345.6	313.6~403.2	
Charge/Discharge Current [A]	140	140	140	140	
Rated Power [kW]	28.6	35.6	42.9	50.1	
Weight [kg]	960	1060	1160	1260	
Dimension [H*W*D] [mm]	1980*988*1065				
Communication	CAN				
Operating Temperature Range [°C]	-30~50				
Cooling Method	Air Conditioner				
Relative Humidity	5~95% (No Condensing)				
Altitude [m]	2000				
Ingress Protection	IP55				
Mounting	Ground-Mounted				
Control Module	CBC2-HV5				
Weight [kg]	28				
Dimension [H*W*D] [mm]	225*483*610				
Battery Module	CBU2-14.33-HV5				
Rated Energy [kWh]	14.33				
Weight [kg]	115				
Dimension [H*W*D] [mm]	231*523*805				
Applicable Standard	IEC62619-2017, UN38.3, IEC61000-6-2/4, IEC62477				



CB2 SERIE C & I ENERGY STORAGE BATTERY SYSTEM



CB2-X-HV5



Adopting high-performance 280Ah lithium iron phosphate battery, safe and reliable



Capacity range of 57.3~186.2kWh



Supporting 4 clusters in parallel, flexible in expansion



Supporting remote firmware upgrade











MODEL	CB2-X-HV5			
Battery System Energy [kWh]	186.2			
Rated Capacity [Ah]	280			
Charge/Discharge Current [A]	140			
No. of Modules	4~13			
Communication	CAN			
Operating Temperature Range [°C]	Charging:0~50; Discharging:-20~50			
Cooling Method	Smart Fan Cooling			
Relative Humidity	5~90(No Condensing)			
Altitude [m]	2000			
Ingress Protection	IP20			
Mounting	Ground-Mounted			
Control Module	CBC2-HV5			
Voltage Range [V]	160~1000			
Weight [kg]	28			
Dimension [H*W*D] [mm]	225*483*610			
Battery Module	CBU2-14.33-HV5			
Rated Energy [kWh]	14.33			
Weight [kg]	115			
Dimension [H*W*D] [mm]	231*523*805			
Applicable Standard	IEC62619-2017, UN38.3, IEC61000-6-2/4, IEC62477			