CH3 Series C&I Hybrid Inverter

- **ONE FOR ALL:** Highly integrated system combines on-grid, backup ,GEN connection.designed to support diverse scenarios.
- **STS Integrated:** Supports max 10 pcs parallel seamless switching between on\off-grid modes with built-in STS (Static Transfer Switch).
- **Ultimate Energy Efficiency:** Industry-leading efficiency across the PV-BAT-load pathway, achieving 4+% energy savings (VS AC coupling).
- **1250V PV String Inputs:** Reduces BOS and installation expenses for PV cabling up to 18%.
- **Built-in EMS:** 100Mbps networked communication, vastly exceeding the 115.2kbps limit of traditional solutions.
- **Superior Safety:** Integrated AFCI and PV string-level disconnectors protection against electrical fires.
- **Flexible Configuration:** Connection up to 4 pcs SAJ CB3-261-L liquid-cooled BAT, enabling system durations from 2 to 8 hours.
- **AI-Powered:** Equipped with one-click AI diagnosis, AI Saving 2.0, and AI smart temperature control, maximize end-user revenue.



CH3-75K-T6-EU | CH3-80K-T6-EU
CH3-99.9K-T8-EU | CH3-100K-T8-EU
CH3-110K-T8-EU | CH3-125K-T8-EU

Guangzhou Sanjing Electric Co., Ltd.

www.saj-electric.com sales@saj-electric.com

SAJ

MODEL	CH3-75K-T6-EU	CH3-80K-T6-EU	CH3-99.9K-T8-EU	CH3-100K-T8-EU	CH3-110K-T8-EU	CH3-125K-T8-EU
DC Input						
Max. PV Array Power [kWp]@STC	150	160	200	200	220	250
Max. DC Voltage [V]	1250	1250	1250	1250	1250	1250
MPPT Voltage Range [V]	300-1250	300-1250	300-1250	300-1250	300-1250	300-1250
Rated DC Voltage [V]	1050	1050	1050	1050	1050	1050
Start Voltage [V]	400	400	400	400	400	400
Max. DC Input Current [A]	40	40	40	40	40	40
Max. DC Short Circuit Current [A]	55	55	55	55	55	55
Number of Strings per MPPT	6*2	6*2	8*2	8*2	8*2	8*2
Battery Parameters						
Battery Type	LFP					
Battery Voltage Range[V]	750-950					
Max. Charging/Discharging Current [A]	200					
AC Output [On-grid]						
Rated AC Power [kW]	75	80	99.9	100	110	125
Max. Apparent Power[kVA]	75	80	99.9	100	110	125
Rated Output Current[A]	114.0 / 108.3	121.6 / 115.5	151.7 / 144.2	151.9 / 144.3	167.1 / 158.7	189.9 / 180.4
Max. Output Current [A]	114.0	121.6	151.7	151.9	167.1	189.9
Rated AC Voltage/Range	3 / N / PE, 220 V / 380 V, 230 V / 400 V					
Rated Output Frequency/Range [Hz]	50 / 60					
Power Factor [cos ϕ]	0i - 1 - 0c					
Total Harmonic Distortion [THDi]	< 3%					
AC input [On-grid]						
Rated AC Voltage	3 / N / PE, 220 V / 380 V, 230 V / 400 V					
Rated Output Frequency [Hz]	50 / 60					
Max. Input Current [A]:Enable Back Up	200	200	250	250	250	250
Max. Input Current [A]:Disable Back Up	114.0	121.6	151.7	151.9	167.1	189.9
AC Output [Back-up]						
Max. Output Power [kVA]	75	80	99.9	100	110	125
Peak Output Apparent Power [kVA]	1.1 times rated power, continuous; 1.55 times rated power, 1s					
Rated AC Voltage	3 / N / PE, 220 V / 380 V, 230 V / 400 V					
Rated Output Frequency/Range [Hz]	50 / 60					
Output THDv (@ Liner Load)	< 3%					
AC Input [Generator]						
Max. Input Power [kW]	75	80	99.9	100	110	125
Max. Input Current [A]	114.0	121.6	151.7	151.9	167.1	189.9
Rated Input Voltage	3 / N / PE, 220 V / 380 V, 230 V / 400 V					
Rated Input Frequency/Range [Hz]	50 / 60					
Efficiency						
Max. Efficiency	≥98%					
Euro Efficiency	≥97.5%					
Max. Battery to AC Efficiency	≥98%					
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	II					
AC Surge Protection	II					
PV Terminal Temperature Detection	Integrated					
AFCI	optional					
String-Level Disconnector	Integrated					
General Parameters						
Communication	LED Indicators, WLAN + APP					
Topology	Transformerless					
Operating Temperature Range	-30℃ to +60℃ (45℃ to 50℃ with derating)					
Cooling Method	Smart Air Cooling					
Ambient Humidity	5~95%(No Condensing)					
Altitude [m]	3000					
Ingress Protection	IP66					
Dimensions [H*W*D] [mm]	1027*895*342					
Weight [kg]	135					
Warranty [Year]	5/10					
Standard	IEC61727,IEC62116,IEC62109-1/-2, EN61000-6-2/-4					

CB3-L261 Smart C&I BESS

The CB3 series 261 kWh Liquid-cooling Battery Cabinet is a high-performance energy storage solution designed to maximize reliability and return on investment for C&I applications. It combines advanced thermal management with intelligent automation to ensure every kilowatt-hour is utilized effectively.



Ultimate Energy Efficiency

Achieve industry-leading efficiency across the entire PV-Battery-Load pathway, delivering over 4%+ usable energy savings compared to AC-coupled systems.

AI Active O&M SAJ AI Care

AI Active O&M SAJ AI Care ,including AI physical examination, suggestions for improving efficiency and benefits, and one-click access to local services.

Flexible battery capacity expansion

Support different battery capacity expansion needs, ranging from 2 hours to 8 hours energy storage durations.

CB3-L261

Guangzhou Sanjing Electric Co., Ltd.

www.saj-electric.com sales@saj-electric.com

MODEL	CB3-L261
Battery parameter	
Cell type	LFP 3.2V/314Ah
Battery configuration	1P52S*5S
Nominal energy [kWh]	261
Charge/Discharge rate [P]	0.5
Nominal voltage [V]	832
Voltage range [V]	728 ~ 936
Max. current [A]	188
System parameter	
Dimensions [W*H*D][mm]	1030*2300*1400
Weight [kg]	≤2400
Operation temperature range [℃]	-25 ~ 55
Relative Humidity	0~95% (Non-condensing)
Max. operating altitude [m]	3000
Cooling method	Liquid cooling
Noise	≤75 dB @1m
Fire supression system	Pack-level aerosols+Cabinet-level aerosols+Water sprinkler
Degree of protection	IP55
Anti-corrosion degree	C4-Medium
Communication	CAN