

CHS3 All-in-One C&I Hybrid ESS Solution

- ❑ **1500V Tech — Shorter Payback, Higher Yield:** Revolutionize your C&I ROI with 1500V technology.
- ❑ **≤20ms Seamless Transfer:** Uninterrupted load operation during grid outage, eliminating production and data losses.
- ❑ **10-Unit Off-Grid Paralleling (No STS):** Requires no external STS module, simplifying architecture and boosting backup reliability.
- ❑ **AI Optimized Diesel Genset Control:** AI optimizes generator start-stop and output per load & generation data, cutting fuel consumption by 20%-30%.
- ❑ **Multi-Mode Operation / Off-Grid Ready:** Grid-tied, off-grid, generator-storage hybrid and backup modes; reliable power for remote mines, farms, campsites and base stations.
- ❑ **Parallel Expansion:** 10-unit on/off-grid parallel for power expansion; 20-unit on-grid expansion for capacity scaling.



CH3 Series C&I Hybrid Inverter

Designed for high-energy demand C&I scenarios. As the world's first 1500V DC/400V AC hybrid inverter, it redefines commercial solar economics. By elevating system voltage by 50% over conventional 1000V systems, this innovation translates to a significantly lower Levelized Cost of Energy (LCOE) from day one. A highly integrated system that combines on-grid, backup, and GEN connection, designed to support diverse scenarios.



- ❑ Global First: 1500V PV String Input
- ❑ Uninterrupted & Seamless Power
- ❑ Ultimate Energy Efficiency
- ❑ Scalable & Flexible (STS Integrated)
- ❑ Intelligent & Easy Management (Built-in EMS)
- ❑ Superior Safety & Protection
- ❑ Maximize Investment Returns (200% PV Input)
- ❑ AI-Powered Optimization

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

MODEL	CH3-75K-T6	CH3-80K-T6	CH3-99.9K-T8	CH3-100K-T8	CH3-110K-T8	CH3-125K-T8
DC Input						
Max. PV Array Power [kWp]@STC	150	160	200	200	220	250
Max. DC Voltage [V]	1500	1500	1500	1500	1500	1500
MPPT Voltage Range [V]	300-1500	300-1500	300-1500	300-1500	300-1500	300-1500
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 / 115.5	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	228	243.2	303.4	303.8	334.2	379.8
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]	150.0	160.0	199.8	200.0	220.0	250.0
Max. Input Current [A]	228.0	243.2	303.4	303.8	334.2	379.8
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	Integrated					
String-Level Disconnecter	Integrated					
General Parameters						
Communication	LED Indicators, WLAN + APP					
Topology	Transformerless					
Operating Temperature Range	-30℃ to +60℃ (45℃ to 60℃ with derating)					
Cooling Method	Smart Air Cooling					
Ambient Humidity	5~95%(No Condensing)					
Altitude [m]	3000					
Ingress Protection	IP66					
Dimensions [H*W*D] [mm]	1076*894*394					
Weight [kg]	145					
Warranty [Year]	5/10					
Standard	IEC 62109-1-2, IEC 62477-1, IEC 62920, EN 55011, AS/NZS 4777.2:2020, EN 50549, EN 50530, IEC 61683, IEC 62116, IEC 61727, IEC 60068, IEC 61000-6-3, IEC 63027					

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

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 [°C]	-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
Battery Cell Cycles	≥8000@70% EOL
Anti-corrosion degree	C4-Medium
Communication	CAN

CB3-M20 Series C&I Battery

With enhanced power capacity and extended configuration options, the CB3-M20 battery is built to handle even the most complex installation requirements, giving installers more flexibility, scalability, and performance than ever before.



Modular Stackable Design

Its modular design allows for straightforward stacking without additional brackets, simplifying installation and saving space.



Flexible Configuration

The battery is compatible with SAJ CH2 and CH3 series inverters. It supports flexible capacity requirements for a single cluster, ranging from 60 kWh to 260 kWh.



High-Efficiency Cell & Long Warranty

Featuring a 314Ah cell design and supporting a 95% Depth of Discharge (DoD), it maximizes energy utilization. This robustness is backed by a 10-year cell warranty.



Scalable High-Voltage System

The high-voltage cabinet supports the parallel connection of multiple battery clusters. This enables the system to reach a maximum scalable capacity of 1.25 MW / 10.4 MWh for both on-grid and off-grid applications.



CB3-M20

MODEL	CB3-M20
Nominal Capacity [A]	314
Nominal Energy [kWh]	20
Rated Voltage [Vdc]	64
Rated Charging/Discharging Current [A]	157
Max Charging/Discharging Current [A]	200
DoD [%]	0.95
Operating Temperature Range	Charging 0-55°C; Discharging -10-55°C
Ambient Humidity	5%-85%
Altitude [m]	3000
Ingress Protection	IP20
Dimensions [W*D*H] [mm]	530*1006*277
Weight [kg]	145

MODEL	CB3-HVC
Voltage Range [V]	150-1000
Rated Charging/Discharging Current [A]	157
Max. Charging/Discharging Current [A]	200
Operating Temperature Range	-20°C-55°C
Ingress Protection	IP20
Dimensions [W*D*H] [mm]	530*990*170
Weight [kg]	27.5
Communication Protocol	CAN
Ambient Humidity	5%-85%
Altitude [m]	3000