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.

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CH2 SERIES

HYBRID SOLAR INVERTER

CH2-29.9K-T4 | CH2-30K-T4 | CH2-40K-T5

CH2-50K-T6 | CH2-63K-T6

22.5A Max 22.5A input current to better match high power panel	**200%** 200% PV oversizing	AC retrofit & easy installation	**10** Parallel connection up to 10PCS, easy for expansion
UPS With UPS function switch time ≤ 10ms	**100%** Supported 100% three phase voltage imbalance	Type II AC & DC surge protection	Generator compatibility

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MODEL	CH2-29.9K-T4	CH2-30K-T4	CH2-40K-T5	CH2-50K-T6	CH2-63K-T6
DC Input					
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]					
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/ 400/ 415				
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65				
Power Factor [cos ϕ]	1.0 leading ~ 1.0 lagging				
Total Harmonic Distortion [THDi]	<3%				
AC input [On-grid]					
Rated AC Voltage/Range [V]	3+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/ 415				
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65				
Output THDv (@ Liner Load)	<3%				
Efficiency					
Max. Efficiency	98.6%				
Euro Efficiency	98.0%				
Max. Battery to AC Efficiency	96.0%				
Protection					
PV String Current Monitoring	Integrated				
PV Insulation Resistance Detection	Integrated				
Residual Current Monitoring	Integrated				
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				
AFCI	Optional				
RSD	Optional				
General Parameters					
Communication	Wi-Fi/Ethernet/CAN/RS485				
Topology	Transformerless				
Operating Temperature Range	-40℃ to +60℃ (45℃ to 60℃ with derating)				
Cooling Method	Smart Fan Cooling				
Ambient Humidity	0-100% Non-condensing				
Altitude [m]	3000				
Ingress Protection	IP66				
Dimensions [H*W*D] [mm]	630*630*290				
Weight [kg]	78				
Warranty [Year]	5/10				
Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NRS097 NBR16149/NBR16150, IEC62109-1/-2, NBT32004-2018, EN61000-6-1,EN61000-6-2,EN61000-6-3, EN61000-6-4				

CB2 SERIES

C & I ENERGY STORAGE BATTERY SYSTEM

CB2-57.3-HV5 | CB2-71.6-HV5

CB2-85.9-HV5 | CB2-100.3-HV5

- 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

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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]	1035	1150	1265	1380
Dimension [mm]	960*1065*1980			
Communication	CAN			
Operating Temperature Range [℃]	-30~50			
Cooling Method	Air Conditioner			
Relative Humidity	5~95% (non-condensing)			
Altitude [m]	2000			
Ingress Protection	IP55			
Mounting	Ground-Mounted			
Control Module	**CBC2-HV5**			
Weight [kg]	30			
Dimension [mm]	450*610*225			
Battery Module	**CBU2-14.33-HV5**			
Rated Energy [kWh]	14.33			
Weight [kg]	115			
Dimension [mm]	523*805*231			
Applicable Standard	IEC62619-2017, UN38.3, IEC61000-6-2/4, IEC62477			