

CHS2

C & I ALL-IN-ONE ENERGY STORAGE SOLUTIONS



CHS2-29.9K-T4-X | CHS2-30K-T4-X | CHS2-40K-T5-X
CHS2-50K-T6-X | CHS2-63K-T6-X

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.

MODEL	CHS2-29.9K-T4-X	CHS2-30K-T4-X	CHS2-40K-T5-X	CHS2-50K-T6-X	CHS2-63K-T6-X
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				
Rated Energy [kWh]	57.3~100.3				
Voltage Range [V]	179.2~403.2				
Max.Charging/Discharging Current [A]	140				
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 [V]	3+N+PE/ 3+PE, 380/ 400				
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+N+PE/ 3+PE, 380/ 400				
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 [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	98.6%				
Euro Efficiency	98.0%				
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	II				
AC Surge Protection	II				
AFCI	Integrated				
RSD	Optional				
General Parameters					
Communication	Wi-Fi/Ethernet/CAN/RS485				
Topology	Transformerless				
Operating Temperature Range	-30°C to +50°C (45°C to 50°C with derating)				
Cooling Method	Air Conditioner				
Ambient Humidity	5~95%(No Condensing)				
Altitude	2000				
Ingress Protection	IP55, IP66(Inverter)				
Dimensions [H*W*D] [mm]	1980*988*1065				
Weight [kg]	1050(57.3kWh)/1150(71.6kWh)/1250(85.9kWh)/1350(100.3kWh)				
Warranty [Year]	5/10				
Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150, IEC62109-1/-2, NBT32004-2018, EN61000-6-1,EN61000-6-2,EN61000-6-3, EN61000-6-4				