

CHS2 All In One Hybrid Energy Storage System

Better Performance

- String current 22.5A, matching high power (210) PV panel
- 6 MPPT, support 200% oversizing
- Adopting C&I 280Ah cell, good performance and higher energy density
- Built-in STS function, on-off grid switch in 20ms

Ultimate Safety

- AFCI as standard to prevent fire
- Support core health warning, CO, fire detection, cabinet-level fire protection
- AC and DC type II SPD



Highly Integrated

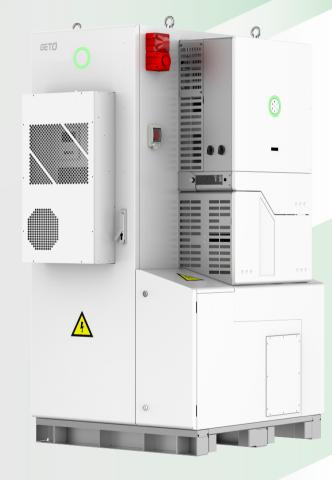
- Pre-installed in the factory, no need for on-site installation and debugging
- Accessing to DG(diesel generator), no need for additional equipment
- AC coupling available



Higher Revenue

- PV and Battery are dc coupled with high efficiency
- Wide environmental adaptability improves VPP revenue
- Intelligent scheduling, and multiple scheduling modes









MODEL	CHS2-29.9K-T4-X	CHS2-30K-T4-X	CHS2-50K-T6-X	
DC Input				
Max. PV Array Power [Wp]@STC	59998	60000	100000	
Max. DC Voltage [V]		1000		
MPPT Voltage Range [V]		180 ~ 850		
Rated DC Voltage [V]		600		
Start Voltage [V]		200		
-	4*45	4*45	6*45	
Max.DC Input Current [A]				
Max.DC Short Circuit Current [A]	4*55	4*55	6*55	
Number of Strings per MPPT	2	2	2	
Battery Parameters				
Battery Type		LiFePO4		
Rated Energy [kWh]		100.3		
Max.Charging/Discharging Current [A]		150		
AC Output [On-grid]				
Rated AC Power [W]	29999	30000	50000	
Max.Apparent Power[VA]	29999	33000	55000	
Rated Output Current[A]@230V	43.3	43.5	72.5	
Max. Output Current [A]@230V	43.3	47.9	79.8	
Rated AC Voltage [V]		3+N+PE, 380/ 400		
Rated Output Frequency/Range [Hz]	50,45 ~ 55			
Power Factor [cos φ]	0i - 1 - 0c			
•	<3%			
Total Harmonic Distortion [THDi]		<3%		
AC input [On-grid]				
Rated AC Voltage/Range [V]	3+N+PE, 380/ 400			
Rated Output Frequency [Hz]	50			
Max. Input Current [A]	200			
AC Output [Back-up]				
Max.Output Power [VA]	29999	33000	55000	
Peak Output Apparent Power [VA]	29999	45000,5s	75000,5s	
Rated AC Voltage [V]		3+N+PE, 380/ 400		
Rated Output Frequency/Range [Hz]		50,45 ~ 55		
Output THDv (@ Liner Load)		<3%		
AC Input [Generator]				
Max. Input Power [W]	29999	30000	50000	
Max. Input Current [A]@230V	2,,,,	200	55555	
Rated Input Voltage [V]		3+N+PE, 380/ 400		
	50,45 ~ 55			
Rated Input Frequency/Range [Hz]		50,45 ~ 55		
Efficiency				
Max. Efficiency	98%			
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		N		
Communication	Wi-Fi/Ethernet/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 [m]		2000		
Ingress Protection	IP55, IP66(Inverter)			
Dimensions [H*W*D] [mm]	1980*988*1065			
Weight [kg]	1035(57.31)	1035(57.3kWh)/1145(71.6kWh)/1255(85.9kWh)/1365(100.3kWh)		
Weight [kg] Warranty [Year]	1033(37.3KV	10		
Standard	VDE/105 IEC/1707//011/ VD	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002,		
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