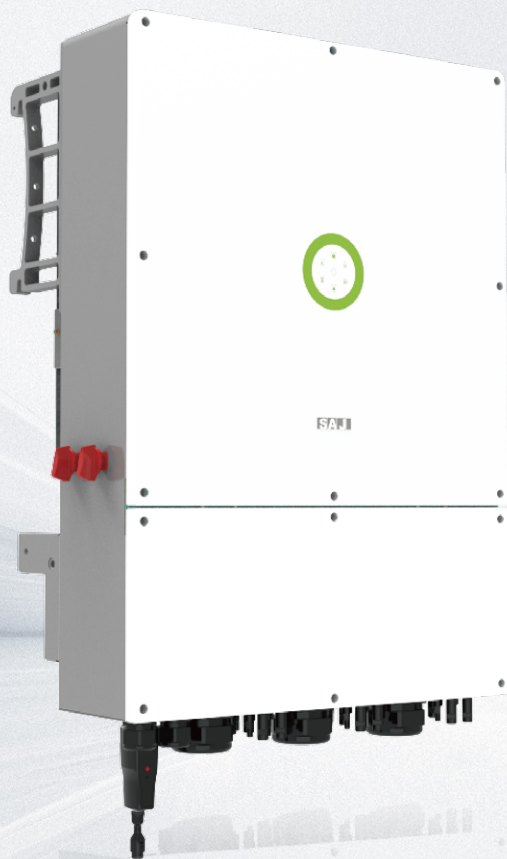


CH2 Series Hybrid Solar Inverter

CH2 series three-phase high-voltage hybrid inverter, supports multi-unit parallel operation, suitable for small and medium-sized industrial and commercial application scenarios. This series includes multiple power levels of 29.9/30/40/50kW, capable of achieving UPS-level grid and off-grid switching, supports generator access, supports a maximum input current of 22.5A. The AC side supports 1.1 times continuous AC overload, standard configuration includes AFCI protection, and type II surge protection for AC and DC ensures power consumption safety.



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



Ultimate Safety

- AFCI as standard to prevent fire
- AC and DC type II SPD
- IP66 protection level



Remarkable adaptability

- Parallel connection up to 10PCS, easy for expansion
- Accessing to DG(diesel generator), no need for additional equipment
- Supports UPS-level on- and off-grid switching

CH2-50K-T6-P

MODEL	CH2-50K-T6-P
DC Input	
Max. PV Array Power [Wp]@STC	100000
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]	6*45
Max.DC Short Circuit Current [A]	6*55
Number of Strings per MPPT	2
Battery Parameters	
Battery Type	LiFePO4
Battery Voltage Range[V]	180 ~ 800
Max.Charging/Discharging Current [A]	150
AC Output [On-grid]	
Rated AC Power [W]	50000
Max.Apparent Power[VA]	55000
Rated Output Current[A]@230V	72.5
Max. Output Current [A]@220V/230V	79.8
Rated AC Voltage/Range [V]	3+N+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 [V]	3+N+PE,380/400/415
Rated Output Frequency [Hz]	50, 60
Max. Input Current [A]	200
AC Output [Back-up]	
Max.Output Power [VA]	55000
Peak Output Apparent Power [VA]	75000,5s
Rated AC Voltage [V]	3+N+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]	138000
Max. Input Current [A]@220V/230V	200
Rated Input Voltage [V]	3+N+PE,380/ 400
Rated Input Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65
Efficiency	
Max. 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	-40°C to +60°C (45°C to 60°C 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*900*290
Weight [kg]	89
Warranty [Year]	5/10