

CH3 Series C&I Hybrid Inverter

Designed for high-energy demand C&I scenarios. As the world's first 1250V DC/400V AC hybrid inverter, it redefines commercial solar economics. By elevating system voltage by 25% 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.

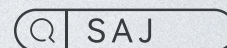


- ❑ Global First: 1250V PV String Input
- ❑ Uninterrupted & Seamless Power
- ❑ Ultimate Energy Efficiency
- ❑ Scalable & Flexible (STS Integrated)
- ❑ Intelligent & Easy Management (Built-in EMS)
- ❑ Superior Safety & Protection
- ❑ Maximize Investment Returns (200% PV Input)
- ❑ AI-Powered Optimization

CH3-75K-T6-AU | CH3-80K-T6-AU
CH3-99.9K-T8-AU | CH3-100K-T8-AU
CH3-110K-T8-AU | CH3-124.9K-T8-AU | CH3-125K-T8-AU

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MODEL	CH3-75K-T6-AU	CH3-80K-T6-AU	CH3-99.9K-T8-AU	CH3-100K-T8-AU	CH3-110K-T8-AU	CH3-124.9K-T8-AU	CH3-125K-T8-AU
DC Input							
Max. PV Array Power [kWp]@STC	150	160	200	200	220	250	250
Max. DC Voltage [V]	1250	1250	1250	1250	1250	1250	1250
MPPT Voltage Range [V]	300-1250	300-1250	300-1250	300-1250	300-1250	300-1250	300-1250
Rated DC Voltage [V]	1050	1050	1050	1050	1050	1050	1050
Start Voltage [V]	400	400	400	400	400	400	400
Max. DC Input Current [A]	40	40	40	40	40	40	40
Max. DC Short Circuit Current [A]	55	55	55	55	55	55	55
Number of Strings per MPPT	6*2	6*2	8*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	124.9	125
Max. Apparent Power [kVA]	75	80	99.9	100	110	124.9	125
Max. (Rated)Output Current [A]	108.3	115.5	144.2	144.3	158.7	180.2	180.4
Rated AC Voltage/Range [V]	3 / N / PE, 230 V / 400 V						
Rated Output Frequency/Range [Hz]	50						
Power Factor Range [cos φ]	0.8 leading to 0.8 lagging						
Total Harmonic Distortion [THDi]	< 3%						
AC Input [On-grid]							
Rated AC Voltage [V]	3 / N / PE, 230 V / 400 V						
Rated Output Frequency [Hz]	50						
Max. Input Current [A]	108.3	115.5	144.2	144.3	158.7	180.2	180.4
AC Output [Back-up]							
Max. Output Power [kVA]	75	80	99.9	100	110	124.9	125
Peak Output Apparent Power [kVA]	1.1 times rated power, continuous; 1.55 times rated power, 1s						
Rated AC Voltage [kV]	3 / N / PE, 230 V / 400 V						
Rated Output Frequency/Range [Hz]	50						
Output THDv (@ Liner Load)	< 3%						
AC Input [Generator]							
Max. Input Power [kW]	75	80	99.9	100	110	124.9	125
Max. Input Current [A]	108.3	115.5	144.2	144.3	158.7	180.2	180.4
Rated Input Voltage [V]	3 / N / PE, 230 V / 400 V						
Rated Input Frequency/Range [Hz]	50						
Efficiency							
Max. Efficiency	≥98%						
AUro Efficiency	≥97.5%						
Max. Battery to AC Efficiency	≥98%						
Protection							
PV Reverse Polarity Protection	Integrated						
Anti-islanding Protection	Integrated(Frequency shift)						
AC Overcurrent Protection	Integrated						
AC Short Circuit Protection	Integrated						
AC Overvoltage Protection	Integrated						
DC switch	Integrated						
Surge Protection	DC Type II / AC Type II						
Protection Class / Over Voltage Category	I / DC II, AC III						
PV Terminal Temperature Detection	Integrated						
AFCI	Integrated						
String-Level Disconnecter	Integrated						
General Parameters							
Communication	LED Indicators, WLAN + APP						
Topology	Transformerless						
Operating Temperature Range	-30°C to +60°C (45°C to 60°C with derating)						
Cooling Method	Smart Air Cooling						
Ambient Humidity	5~95%(No Condensing)						
Altitude	3000						
Ingress Protection	IP66						
Dimensions [H*W*D] [mm]	1120*894*394						
Weight [kg]	145						
Warranty [Year]	Refer to the warranty policy						
Standard	IEC 62109-1-2,IEC 62477-1,IEC 62920,EN 55011,AS/NZS 4777.2:2020,EN 50549,IEC 62116,IEC 61727,IEC 61000-6-3,IEC 63027						