

# 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  $\leq 10\text{ms}$

**100%** Supported 100% three phase voltage imbalance

Type II AC & DC surge protection

Generator compatibility

MODEL	CH2-29.9K-T4	CH2-30K-T4	CH2-40K-T5	CH2-50K-T6	CH2-63K-T6
<b>DC Input</b>					
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
<b>Battery Parameters</b>					
Battery Type			LiFePO4		
Battery Voltage Range [V]			180 ~ 800		
Max. Charging/Discharging Current [A]			3*50		
<b>AC Output [On-grid]</b>					
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%		
<b>AC input [On-grid]</b>					
Rated AC Voltage/Range [V]			3+N+PE/ 3+PE, 380/ 400/ 415		
Rated Output Frequency [Hz]			50,60		
Max. Input Current [A]			150		
<b>AC Output [Back-up]</b>					
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%		
<b>Efficiency</b>					
Max. Efficiency			98.6%		
Euro Efficiency			98.0%		
Max. Battery to AC Efficiency			96.0%		
<b>Protection</b>					
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		
<b>General Parameters</b>					
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*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				