

CH2 SERIES

HYBRID SOLAR INVERTER




CH2-30K-T5-LUS | CH2-36K-T6-LUS

CH2-60K-T5-US | CH2-75K-T5-US

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 10ms

100% Supported 100% three phase voltage imbalance

 Type II AC & DC surge protection

 Generator compatibility

MODEL	CH2-30K-T5-LUS	CH2-36K-T6-LUS	CH2-60K-T5-US	CH2-75K-T6-US
DC Input				
Max. PV Array Power [Wp]@STC	60000	72000	120000	150000
Max. DC Voltage [V]	600		1000	
MPPT Voltage Range [V]	180 ~ 550		180 ~ 850	
Rated DC Voltage [V]	320		740	
Start Voltage [V]	200		200	
Max. DC Input Current [A]	5*45	6*45	5*45	6*45
Max. DC Short Current [A]	5*56.5	6*56.5	5*56.5	6*56.5
Number of MPPT	5	6	5	6
Number of Strings per MPPT	2	2	2	2
Battery Parameters				
Battery Type	LiFePO4		LiFePO4	
Battery Voltage Range[V]	150 ~ 550		270 ~ 800	
Max. Charging/Discharging Current [A]	3*50		3*50	
Communication	CAN		CAN	
AC Output [On-grid]				
Rated AC Power [W]@208V	30000	36000	60000	75000
Max. AC Power [W]@208V	33000	36000	66000	75000
Max. Output Current [A]	91.7	100.0	79.5	90.3
Rated AC Voltage/Range [V]	208		480	
Rated Output Frequency/Range [Hz]	60/55 ~ 65		60/55 ~ 65	
Power Factor [cos φ]	1.0 leading ~ 1.0 lagging		1.0 leading ~ 1.0 lagging	
Total Harmonic Distortion [THDi]	<3%		<3%	
AC Input [On-grid]				
Rated AC Voltage [V]	3L+N+PE/3L+PE, 208		3L+N+PE/3L+PE, 480	
Rated Output Frequency [Hz]	60		60	
Max. Input Current [A]	200.0		200.0	
AC Output [Back-up]				
Max. Output Power [VA]	33000	36000	66000	75000
Peak Output Apparent Power [VA]	45000,5s	54000,5s	99000,5s	1125000,5s
Rated AC Voltage [V]	208		480	
Rated Output Frequency/Range [Hz]	60/55 ~ 65		60/55 ~ 65	
Output THDv (@ Liner Load)	<3%		<3%	
Efficiency				
Max. Efficiency			98.6%	
Max. Battery to AC Efficiency			96.0%	
Protection				
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			Integrated	
RSD			Integrated	
System parameters				
Communication	Wi-Fi/Ethernet/CAN/RS485			
Operating Temperature Range	-40°F+140°F (-49°F to 140°F with derating)			
Cooling Method	Smart Fan Cooling			
Ambient Humidity	0-100% Non-condensing			
Altitude [ft]	6561			
Ingress Protection	Type 4X			
Dimensions [H*W*D] [in]	24.8*38.5*11.4			
Weight [lb]	207			
Warranty [Year]	10			
Standard	UL1741:2021 UL1741, IEEE1547:2018, IEEE15471:2020, HECO Rule 14-5000, UL1998:2018, CEC, FCC Part 15			