

H2 5-12kW Low Voltage Hybrid Inverter



- ❑ 100% unbalanced output
- ❑ Colorful touch LCD, IP66 protection degree
- ❑ Max. 20A PV input current; DC/AC access oversizing up to 200%
- ❑ Max 290A fast charge/discharge current
- ❑ Support whole home backup function with up to 63A bypass
- ❑ Max. 10 pcs parallel for on-grid and off-grid operation, Support multiple batteries parallel
- ❑ Integrated Intelligent energy management with generator, heat pump, solar system and smart load
- ❑ Ultralight for easy installation and space-saving

H2-5K-LT2 | H2-6K-LT2
 H2-7.5K-LT2 | H2-8K-LT2
 H2-10K-LT2 | H2-12K-LT2

Model	H2-5K-LT2-LV	H2-6K-LT2-LV	H2-7.5K-LT2-LV	H2-8K-LT2-LV	H2-10K-LT2-LV	H2-12K-LT2-LV
DC Input						
Max. PV Array Power [Wp]@ STC	10000	12000	15000	16000	20000	24000
Max. PV Input Power (W)	8000	9600	12000	12800	16000	19200
Max. PV Input Voltage (V)	1000					
MPPT Voltage Range(V)	160-950					
Start-up DC Input Voltage (V)	150					
Rated DC Input Voltage (V)	720					
Max. DC Input Current (A)	20/20					
Max. DC Short Circuit Current(A)	25/25					
No. of MPP Trackers/Strings per MPPT	2(1/1)					
DC Current Injection	Integrated DC switch					
Battery Parameters						
Battery Type	Lead-acid or LiFePO4					
Battery Voltage Range (V)	40-60					
Max.Charging/Discharging Current [A]	130	150	190	210	250	290
Number of Battery Input	2					
Charging Strategy for Li-ion Battery	Self-adaption to BMS					
AC Output [On-grid]						
Rated AC Output Active Power (W)	5000	6000	7500	8000	10000	12000
Max. AC Output Apparent Power (VA)	5500	6600	8250	8800	11000	12000
Rated Output Voltage (Vac)	127/220					
Rated AC Output Current (A)	13.1	15.7	19.7	21.0	26.2	31.5
Max. AC Output Current (A)	14.4	17.3	21.7	23.1	28.9	31.5
Bypass Current (A)	63					
Power Factor Adjustment Range	0.8 leading to 0.8 lagging					
Rated AC Voltage/Range [V]	3L/N/PE 127/220					
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65					
Total Harmonic Distortion [THDi]	<3%					
DC Current Injection	<0.5%In					
AC Output[Back-up]						
Max. AC Output Apparent Power (VA)	5000	6000	7500	8000	10000	12000
Max. AC Output Current (A)	13.1	15.7	19.7	21.0	26.2	31.5
Peak Power (Off Grid)	2 times of rated power, 10 S					
Rated AC Voltage/Range [V]	3L/N/PE 127/220					
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65					
Switvh Time (ms)	<10					
Total Harmonic Distortion [THDv] (@ Linear Load)	<3%					
GEN Port (On-grid)						
Rated AC Output/Input Power (VA)	5000	6000	7500	8000	10000	12000
Rated. AC Output/Input Current (A)	13.1	15.7	19.7	21.0	26.2	31.5
Rated AC Voltage/Range [V]	3L/N/PE 127/220					
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65					
GEN Port (Off-grid)						
Rated AC Output/Input Power (VA)	5000	6000	7500	8000	10000	12000
Rated. AC Output/Input Current (A)	13.1/31.5	15.7/31.5	19.7/31.5	21/31.5	26/31.5	31.5/31.5
Rated AC Voltage/Range [V]	3L/N/PE 127/220					
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65					
System						
MPPT. Efficiency	> 99.90%					
Max. Efficiency	98.0%					
Euro Efficiency	97.5%					
Stand-by / Night Consumption (W)	< 20					
Noise (dB)	< 45dB					
HMI	LED+LCD					
Communication	CAN, RS485, WIFI/4G/LAN(optional)					
Installation Style	Wall-mounted					
Protection						
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection,AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level					
Surge Protection Level	Integrated SPD/TYPE II(DC), TYPE II(AC)					
Environment						
Protection Degree	IP66					
Cooling	Smart Cooling					
Operating Temperature Range	- 30°C to +65°C (derating above +45°C)					
Operating Humidity	0-100%, non-condensing					
Operating Altitude	4000m (>3000m Power Derating)					
Over Voltage Category	DC Type II/AC Type III					
Mechanical Data						
Cabinet Size (WxHxD mm)	470*740*270					
Weight (kg)	53					
Standard						
Safety Standard	IEC/EN 62109-1/2, EN IEC62040					
EMC Standard	IEC/EN 61000-6-1/2/3/4					
Grid Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002,OVE-Richtlinie R25, G99, VDE-AR-N 4105					