JHPV TECH

JH2 5-12kW Low Voltage Hybrid Inverter

20A-50A/h

JHPVTECH's Low Voltage solution of hybrid inverter, allow to be compatible with both LFP and Lead-Acid Batter, supporting storing energy from diesel generator, provide a most cost effective solution for those entry-level market. H2 covers 5 -12kW, 2MPPTs, single phase grid.

LV

- Max 20A input current to better match high power panel
- 200% DC oversizing
- Built-in meter zero export limiter
- Max. 4 pcs parallel for on-grid and off-grid operation
- Heat-resistant (> 50℃with derating)
- Support generator / smart load access

JH2-5K-LS2 | JH2-6K-LS2 | JH2-7.6K-LS2
JH2-8K-LS2 | JH2-10K-LS2 | JH2-12K-LS2

Technical parameters

MODEL	JH2-5K-LS2	JH2-6K-LS2	JH2-7.6K-LS2	JH2-8K-LS2	JH2-10K-LS2	JH2-12K-LS2
DC Input						
Max. PV Array Power [Wp]@STC	10000	12000	15200	16000	20000	24000
Max. DC Voltage [V]	500					
MPPT Voltage Range [V]	90 ~ 480					
Rated DC Voltage [V]	360					
Star Voltage [V]	80					
Max. DC Input Current [A]	20/20		40/40			
Max. DC Shor Circuit Current [A]	25/25		50/50			
No. of MPPT	2					
Batter Parameters						
Batter Type	Lead-acid or LiFePO4					
Batter Voltage Range [V]	40 ~ 60					
Max. Charging/Discharging Current [A]	100	120	190	190	240	
AC Output [On-grid]						
Rated AC Power [W]	5000	6000	7600	8000	10000	12000
Max. Apparent Power [VA]	5500	6600	8360	8800	10000	12000
Rated Output Current [A]@230Vac	21.8	26	33	34.8	43.5	52.2
Max. Output Current [A]	25	30	38	40	45.5	54.6
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240/180 ~ 280					
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65					
Power Factor [cos φ]	0.8 leading ~ 0.8 lagging					
Total Harmonic Distorion [THDi]	<3%					
AC Input [On-grid]						
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240/180 ~ 280					
Rated Input Frequency [Hz]	50,60					
Max. Input Current [A]@230Vac	50	60		80	91	100
AC Output [Back-up]						
Max.Output Power [VA]	5000	6000		8000	10000	12000
Max. Output Current [A]	25	30		40	45.5	54.6
Peak Output Apparent Power [VA]	6000,60s	7200,60s		9600,60s	12000,60s	13200,60s
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240/180 ~ 280					
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65					
Output THDv (@ Linear Load)	<3%					
Efciency						
Max. Efciency	97.6%					
Euro Efciency	97.0%					
Protection						
Batter Input Reverse Polarity Protection	Integrated					
Over load Protection	Integrated					
AC Shor Circuit Current Protection	Integrated					
DC Surge Protection	Integrated					
AC Surge Protection	Integrated					
Anti-islanding Protection	Integrated					
AFCI Protection	Optional					
RSD Protection	Optional					
Interace						
PV Connection	Terminal Block					
AC Connection	Terminal Block					
Batter Connection	Terminal Block					
Display	LED+APP					
Communication	Wi-Fi/Ethernet/4G(Optional)					
General Parameters						
Topology	Non-isolated					
Operating Temperature Range	-40℃ to +60℃ (50℃ to 60℃ with derating)					
Cooling Method	Intelligent Fan cooling					
Ambient Humidity	0-100% Non-condensing					
Altitude	4000m (>3000m Power Derating)					
Noise [dBA]	<50					
Ingress Protection	IP65					
Dimensions [H*W*D] [mm]	590*380*241					
Weight [kg]	29					
Warranty [Year]	5/10					
Standard	EN 62109-1/2, EN 61000-6-1/2/3/4,IEC 62116, IEC 61727,IEC62183,PEA&MEA, NBR 16149, NBR 16150,PORTARIA Nº 140,515, NRS097					