



JB-HS48 Series

Single-Phase Hybrid Inverter

JB-HS48 series products are single-phase hybrid inverters of low-voltage, they are suitable for home photovoltaic energy storage systems and have the ability to intelligently control energy flow. They are an all-round system for maximum energy flexibility.



IP65 rating for outdoor installation



Dual MPPT trackers



Remote monitoring, upgrades, and automatic battery management



Multiple operating modes: grid-tied, off-grid, and grid-tied with backup



Zero export function supported



A wide range of MPPT voltage is available: 90-580V

JB-HS48 Series

MODEL	JB4K-HS48	JB4K6-HS48	JB5K-HS48	JB6K-HS48
Nominal Apparent Power Output to Utility Grid (VA)	4000	4600	5000	6000
Nominal Battery Voltage (V)	48			
BATTERY INPUT DATA				
Battery Type	Lithium/Lead-acid			
Battery Voltage Range (V)	42-58			
Charging mode	Three-stage charging mode or Self-adaption to BMS			
Max. Continuous Charging/Discharging Current (A)	85	100		
PV STRING INPUT DATA				
Max. Input Power (W)	6000	6900	7500	9000
Max. Input Voltage (V)	600			
MPPT Operating Voltage Range (V)	90-580			
Max. Input Current per MPPT (A)	13			
Number of MPPTs/Number of Strings per MPPT	2/1			
AC OUTPUT DATA(ON-GRID)				
Max. Apparent Power Output to Utility Grid (VA)	4400	5060	5500	6600
Max. Apparent Power from Utility Grid (VA)	8000	9200	10000	10000
Nominal Output Voltage (V)	220 / 230 / 240(180-276)			
Nominal AC Grid Frequency (Hz)	50/60 (45-55/55-65)			
Power Factor	0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
AC OUTPUT DATA (BACK-UP)				
Max. Output Nominal Power (VA)	4000	4600	5000	
Peak Power (VA)/time (s)	4800/60	5520/60	6000/60	
Switch time	10ms			
Max. Output Current (A)	18.2	20.9	22.7	22.7
Nominal Output Voltage (V)	230 (L / N / PE)			
Nominal Output Frequency (Hz)	50/60			
Output THDv (@Linear Load)	<3%			
EFFICIENCY				
Max. Efficiency	97.6%	97.8%		98.0%
European Efficiency	97.2%	97.3%		97.5%
Max. Battery to AC Efficiency	94.6%			
GENERAL DATA				
Protection	PV reverse polarity protection/PV insulation detection/Ground fault monitoring/Overcurrent protection/Overvoltage protection, SPD protection			
Ambient temperature range (°C)	-30°C to +60°C(Derating above 45°C)			
Max. Operating Altitude (m)	4000,(>2000 Derating), 0~100%			
Cooling Method	Nature Convection			
Display / Communication	LCD / RS485、CAN2.0、WiFi Optional: GRRS			
Dimension W×H×D (mm) / Weight (Kg)	510*510*188mm / 23.5kg			
Topology	Battery Isolation			
Self-consumption at Night (W)	<10			
Ingress Protection Rating / Mounting Method	IP65 / Wall Bracket			
Certifications & Standards	EN50549-1, G98, G99, VDE-AR-N 4105, DIN VDE V 0124-100, IEC 62109-1, IEC 62109-2, IEC 62477, EN 61000-6-1, EN 61000-6-3			

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

