



HYBRID INVERTER (Grid-tied)

JB3K6-HS48 / JB4K-HS48 / JB4K6-HS48

JB5K-HS48 / JB6K-HS48



Reliable

IP65 rating with C5 anti-corrosion grade Multi-protections (leakage, anti-islanding, and surge resistance)



Efficient

Max efficiency >98%, European efficiency >97%
Dual MPPT trackers, support 1.5 times PV string input



Flexible

Modular design (Max: 6pcs in parallel)
Small size, easy to install



Friendly

Specific harmonic suppression technology, effectively reduce current harmonics
Support generator load access



Intelligent

Multiple operation modes, UPS switch time ≤ 10ms
Support APP remote monitoring and management

JB-HS48 Series

Joulebank

MODEL	JB3K6-HS48	JB4K-HS48	JB4K6-HS48	JB5K-HS48	JB6K-HS48
PV-INPUT					
Max.Input Power	5400Wp	6000Wp	6900Wp	7500Wp	9000Wp
Max.Input Voltage	580Vdc				
MPPT Operating Voltage Range	90-550Vdc				
Max.Input Current per MPPT	16A				
Numbers of MPPT	2				
Max. Input String Per MPPT	1/1				
BATTERY-INPUT					
Rated battery voltage	48Vdc				
Battery Voltage Range	42-58Vdc				
Max.Continuous Charging/Discharging Current	80A	85A	125A		
Max.Battery Charge/Discharge Power	3600W	4000W	4600W	5000W	6000W
Battery Type	Lithium/Lead-acid				
Charging Mode	Three phase equalization charging mode or Self-adaption to BMS				
AC-INPUT					
Rated Grid Input Voltage	L/N/PE, 220/230/240Vac				
Rated Grid Input Frequency	50/60Hz(±5%)				
Rated Grid Input Power	3600W	4000W	4600W	5000W	6000W
Rated Grid Input Current	15.6A	17.4A	20A	21.7A	26A
AC-OUTPUT (ON-GRID)					
Max.Apparent Power Output to Utility Grid	3600W	4000W	4600W	5000W	6000W
Max.Apparent Power from Utility Grid	4300W	4800W	5500W	6000W	7200W
Nominal Output Voltage	L/N/PE 220Vac/230Vac				
Nominal AC Grid Frequency	50/60Hz (±0.1%)				
Power Factor	>0.99Rated Power (Adjustable 0.8 leading - 0.8 lagging)				
Output THDv (@Linear Load)	<3%				
AC-OUTPUT (BACK-UP)					
Max Output Nominal Power	3600W	4000W	4600W	5000W	6000W
Peak Power/Time	4300W/60s	4800W/60s	5500W/60s	6000W/60s	7200W/60s
Switch Time	10ms				
Max Output Current	18.4A	20A	23A	25A	27.3A
Nominal Output Voltage	L/N/PE 220Vac/230Vac				
Nominal Output Frequency	50/60Hz (±0.1%)				
Power Factor	>0.99Rated Power (Adjustable 0.8 leading - 0.8 lagging)				
Output THDv (@Linear Load)	<3%				
EFFICIENCY					
Max.Efficiency	97.6%		97.8%		98%
European Efficiency	97.2%		97.3%		97.5%
MPPT Efficiency	99.9%				
Max.Battery to AC Efficiency	96%				
GENERAL DATA					
Protection	DC Switch, PV Insulation Resistance Detection, Residual Current Monitoring, Anti-islanding Protection, Reverse Polarity Protection(PV&Battery), AC Short Circuit Protection, AC Overcurrent Protection, AC Overvoltage Protection: LEVEL III; PV&Battery: LEVEL II, Surge Protection, Lightning Protection: TYPE II				
Ambient Temperature Range	-30~60 C (Derating above 45 C)				
Relative Humidity	0~95% (Non-condensing)				
Max.Operating Altitude	4000M (>3000M Derating)				
Cooling Method	Nature Convection				
Display	LCD+APP				
Communication	RS485/CAN(for BMS), RS485, USB, DRM/RS485(for Meter), Optional: WIFI/GPRS/LAN				
Noise Emission	<30dB				
Topology	Battery Isolation				
Self-consumption at Night	<10W				
Ingress Protection Rating	IP66				
Mounting Method	Wall Bracket				
Dimension(W×H×D)	400x540x237mm				
Weight	23Kg				
Certifications&Standards	IEC62109, IEC62116, IEC61727, IEC61683, IEC62040, IEC60068, EN61000, EN50549/EN50438, VDE-AR-4105, VDE-AR-0126, CEI 0-21, G99/G98, NTS typeA, NFS 097-2-1, AS/NZS 4777, UNE217001-1/2, RD244, RD1699, RD647				

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.

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