Eco Hybrid Inverter

JBL-OFF-6K-1PL

Application: Residential Use

Excellent Performance

•200% PV oversizing, 150% PV usable power
•Max. 36A PV inuput current for high-power solar panels
•Max. battery charge/discharge current of 140A/160A
•Max. 11.5kW utility input power

High Flexibility

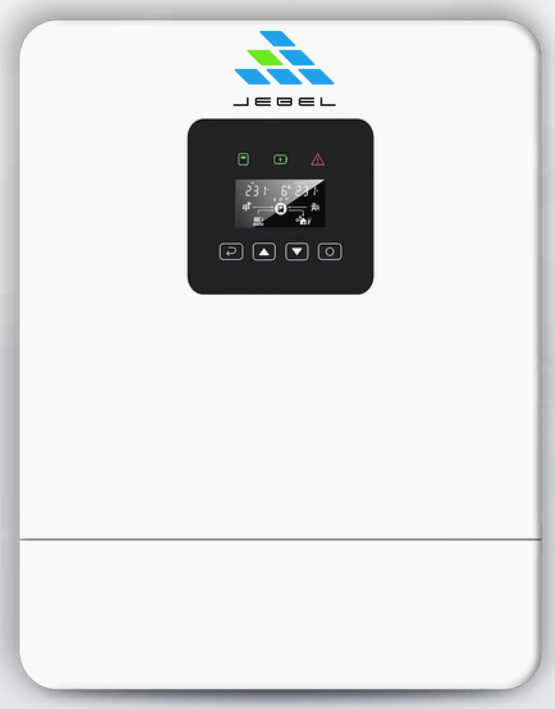
•Support 40-60V Lithium or Lead-acid battery
•Independent generator port
•Dual output with smart load
•Up to 12 pcs in parallel, support 3-phase parallel system (Only 6K model)

Safety & Reliability

•IP54 protection rating
•Multiple built-in protections, DC/AC Type III SPD
•3 year Warranty

Intelligent Maintenance

•USB OTG function
•Time-Based battery charging/discharging
•Built-in Wi-Fi and bluetooth for local and remote monitoring



SINGLE PHASE & LV INVERTER

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	JBL-OFF-4K-1PL	JBL-OFF-6K-1PL
Efficiency		
Efficiency (PV to AC)	95%	
Efficiency(BAT to AC)	93%	
PV Input		
Max. PV Usable Power	6000W	9000W
Max. PV Voltage	500V	
MPPT Voltage Range	60V-450V	
Star-up Voltage	60V	
Nos. of MPPT	1	
String Per MPPT	1	
Max. Input Current Per MPPT	18A	36A
Battery		
Battery Type	Lead-acid/Li-ion/User Defined	
Rated Battery Voltage	24V/25.6V	48V
Battery Voltage Range	20-30V	40-60V
Max. Solar Charging Current	140A	140A
Max. AC Charging Current	140A	140A
Max. Charging/Discharging Current	140A/160A	140A/140A
AC Input		
Max. Input Power	6000W	11500W
Max. AC Input Current	27.3A	50A
Rated Grid Voltage	220V/230V/240V	
Input Voltage Range	170V-280V (For UPS), 90V-280V (For Home Appliances)	
Rated Grid Frequency	50Hz/60Hz	
AC Output		
Rated Output Power	4000W/4000VA	6000W/6000VA
Rate Output Voltage	220V/230V/240V	220V/230V/240V
Rated Output Current	18.2A/17.4A/16.7A	27.3A/26A/25A
Rate Output Frequency	50Hz/60 Hz	50Hz/60 Hz
Max. Continuous AC Passthrough (grid to load)	4000W	9000W
Overload Capacitor	105%-150% after 10.5s shutdown; 150%-200% after 5.5s shutdown	
Surge Power	8000VA, 5s	12000VA 5s
THDv (@linear load)	<3%	
Parallel Capacity	Not Support	12 PCS
Switch Time	10ms Typical (For UPS) 20ms Typical (For Home Appliances)	10ms Typical (For UPS) 20ms Typical (For Home Appliances) 50ms Typical (For Parallel Operation)
Protection		
Ingress Protection	IP54	
Over Voltage Protection	Yes	
Overload Protection	Yes	
Short Circuit Protection	Yes	
Over Temperature Protection	Yes	
Surge Protection	DC: Type III, AC: Type III	
General		
Communication	USB (OTG), RJ45 (for BMS, CAN/RS485), RJ45 (for Parallel), Dry-Contact, WIFI/LAN (Optional)	
Operation temperature range	-10 ~ +55°C	
Humidity	5%-95%	
Max. operating altitude	4000m, >2000m derating	
Cooling method	Intelligent fan cooling	
Display	LED+LCD	
Mounting	Wall-mounted	
Dimensions (W*H*D)	345mm*445mm*120mm	
Certification	EN/IEC 62109-1, EN/IEC 62109-2, EN/IEC 61000	
Warranty	3 Years	

Remarks:· The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.