



Energy Storage Inverter

JBL-HYB-12K-1PL



Equipped with GEN port · compatible with diesel generators, smart loads, and AC coupling.



IP66 rated enclosure, designed for both indoor and outdoor deployment in harsh environments.



Color touch screen (4.3/7" optional).



Compatibility with lead-acid and Li-ion batteries, support various brands of lithium batteries.



5-year standard warranty and 10-year extended warranty.

Input DC (PV side)

Max. PV access power	24kW
Max. PV input power	19.2kW
Max. PV input voltage	600V
Nominal input voltage	360V
MPPT working voltage range	80V-500V
Number of independent MPPT/strings per MPPT	4/1
MPPT max. current	4*20A
Start-up voltage	100V

Output/Input AC (Grid side)

Nominal apparent power	12kW
Max. apparent power	13.2kVA
Nominal voltage	220V/230V
Nominal frequency	50Hz/60Hz
Rated current	54.5A/52.2A
Max. current	60A
Power factor	-0.8~+0.8 (adjustable)
THDi	<3%(Nominal Output)
Grid system pattern	L+N+PE
Max. AC current from utility grid	100A

Output AC (Back-up)

Nominal output power	12kW
Max. output apparent power	13.2kVA
Nominal output voltage	220V/230V
Nominal output frequency	50Hz/60Hz
Output THDV	<3%
Automatic switch time	<10ms

Battery

Battery type	Li-ion/Lead-acid
Battery voltage range	40V~60V
Max. charging/discharging current	240A
Charging strategy for Li-ion battery	Self-adaption to BMS
Charging strategy for Lead-acid battery	Three-stage

Efficiency

Max. MPPT efficiency	99.9%
Europe efficiency	97.5%
Max. battery to load efficiency	94.5%

Protection

Anti islanding protection	Yes
Insulation impedance protection	Yes
RCD detection	Yes
PV reverse polarity protection	Yes
Output over voltage protection	Yes
Output over current protection	Yes

General Data

Dimensions(L/W/H)in mm	425/290/660
Weight	39kg
Operation temperature range	-25°C~60°C
Heat dissipation mode	Smart cooling
IP Class	IP 66
Maximum altitude	4000m
Self-Consumption night	<3W
Topology	Transformerless

Features

LCD display	Yes
Communication interface	WiFi/4G/USB/CAN/RS485

Standards

IEC 62109-1/IEC 62109-2/EN IEC 61000-6-1/EN IEC 61000-6-3/CEI 0-21
VDE AR4105/VDE V 0124-100/NC RfG/PSE/PTPIREE/EN50549/NRS 097