



# Energy Storage Inverter

JBL-HYB-10K-1PL2



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	20kW
Max. PV input power	16kW
Max. PV input voltage	550V
Nominal input voltage	360V
MPPT working voltage range	80V-500V
Number of independent MPPT/strings per MPPT	2/2
MPPT max. current	36A/36A
Start-up voltage	120V

**Output/Input AC (Grid side)**

Nominal apparent power	10kW
Max. apparent power	11kVA
Nominal voltage	220V/230V
Nominal frequency	50Hz/60Hz
Rated current	45.4A/43.4A
Max. current	50A
Power factor	-0.8~+0.8 (adjustable)
THDi	<3%(Nominal Output)
Grid system pattern	L+N+PE
Max. AC current from utility grid	80A

**Output AC (Back-up)**

Nominal output power	10kW
Max. output apparent power	11kVA
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	180A
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	375/265/513
Weight	27kg
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