



Energy Storage Inverter

JBL-HYB-20K-3PL



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).



Supports battery charge/discharge currents up to 400A.



Supports 100% 3-phase unbalanced output on both ports (BACKUP & GRID).



110% continuous overload rating at sustained operation.

Input DC (PV side)

Max. PV access power	40kW
Max. PV input power	32kW
Max. PV input voltage	1000V
Nominal input voltage	600V
MPPT working voltage range	180V-850V
Number of independent MPPT/strings per MPPT	2/2
MPPT max. current	2*36A
Start-up voltage	200V

Output/Input AC (Grid side)

Nominal apparent power	20kW
Max. apparent power	22kVA
Nominal voltage	380V/400V
Nominal frequency	50Hz/60Hz
Rated current	30.3A/29A
Max. current	33A
Power factor	-0.8~+0.8 (adjustable)
THDi	<3%(Nominal Output)
Grid system pattern	3L+N+PE
Max. AC current from utility grid	60A

Output AC (Back-up)

Nominal output power	20kW
Max. output apparent power	22kVA
Nominal output voltage	380V/400V
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	400A
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	425/290/710
Weight	45kg
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/PTPREE/EN50549/NRS 097