



Energy Storage Inverter

JBL-HYB-20K-3PH



Supports up to 10-unit parallel operation in both on-grid and off-grid modes, featuring scalable capacity.



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.



Supports setting 9 periods, including three periods each for self-consumption, battery charge, and battery discharge.



Supports 7 intelligent working modes and automatically switch within 10ms.



Silent fanless design with zero-maintenance reliability.

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	30A/30A
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	30A/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
Battery voltage range	150V-750V
Max. charging/discharging current	50A
Charging strategy for Li-ion battery	Self-adaption to BMS

Efficiency

Max. MPPT efficiency	99.9%
Europe efficiency	97.5%
Max. battery to load efficiency	98%

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	403/284/463
Weight	32kg
Operation temperature range	-25°C~+60°C
Heat dissipation mode	Smart Cooling
IP Class	IP 66
Maximum altitude	4000m
Self-Consumption night	<3W

Features

Transpormerless

LCD display	Yes
Communication interface	WiFi/4G/USB/CAN/RS485
Standards	EN 62109/EN 62477/EN IEC 61000/CEI 0-21/NTS-631/RD647/UNE 217001/UNE 217002/VDE 4105/IEC 61727/IEC 62116/IEC 61683/EN 50549/G98/G99/NRS 097/UTE C 15/VDE V 0126