



Off-Grid Inverter

FSD-3~4.2K1P-BL-G3

「3/3.6/4/4.2kW」

Features



Parallel Connection

Parallel connection with up to 9 units



Enhanced Overload Capacity

2 times the rated power for 5 seconds



High-Power Module Compatibility

Higher PV input current up to 18A



Smart Load Management

Dual AC outputs to power loads on demand priority



Seamless Switchover

UPS-level switching time $\leq 4\text{ms}$



Efficient Battery Charge/Discharge

Max. 120A charge current
Max. 137A discharge current



Remote Monitoring

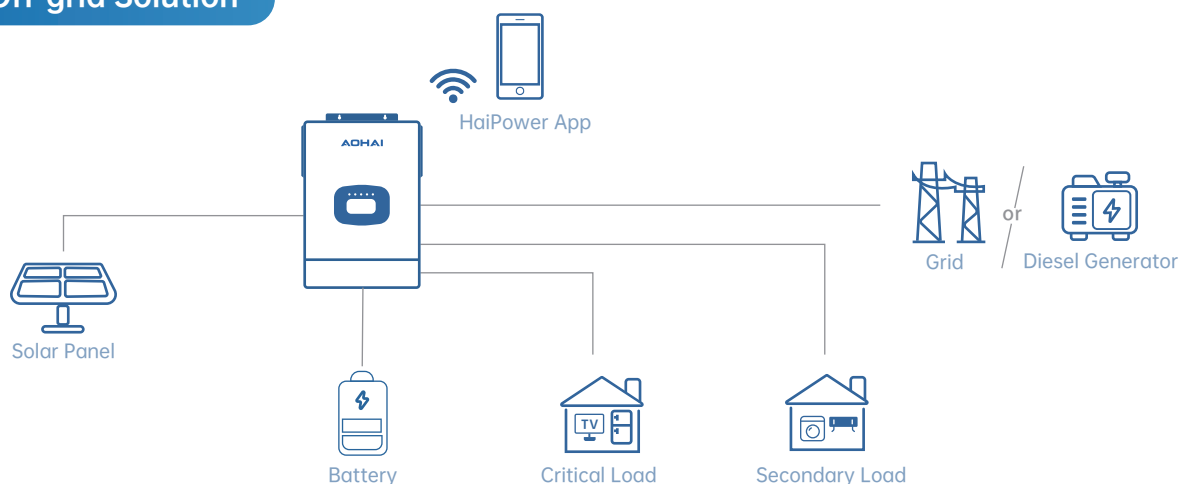
Built-in WiFi module for HaiPower monitoring



Touch Screen

4.3" 800 x 480 interactive display without physical keys

Off-grid Solution



Specifications

Model

FSD-3K1P-BL-G3

FSD-3.6K1P-BL-G3

FSD-4K1P-BL-G3

FSD-4.2K1P-BL-G3

Solar Input Data

Max. PV Input Power	3300W	3960W	4400W	5200W
Max. Input Voltage	500V			
Start-up Voltage	90V			
MPPT Voltage Range	60V~450V			
Max. Input Current per MPPT	18A			
Max. Short Circuit Current per MPPT	23A			
Number of MPPT	1			

Battery Data

Battery Type	Li-Ion / Lead-acid			
Nominal Battery Voltage	24V			
Battery Voltage Range	20~30V			
Max. Discharge Current	137A			
Max. Charge / Discharge Power	3000W		3300W	
Li-Ion Battery Activation	Yes			
Li-Ion Battery Communication	CAN / RS485			
Max. Solar Charge Current	120A			
Max. AC Charge Current	100A			
Max. Charge Current (PV+AC)	120A			

AC Input Data (Grid)

Nominal Input Voltage	230Vac, L / N / PE			
Input Voltage Range	90~280V			
Max. Input Current	25A			
Nominal Input Power	5700W			
AC Frequency Range	50 / 60Hz (Auto sensing)			

Inverter Output Data

Nominal Output Power	3000W	3600W with PV & battery 3000W with battery only	4000W with PV & battery 3300W with battery only	4200W with PV & battery 3300W with battery only
Peak Apparent AC Power	6000VA	7200VA	8000VA	8400VA
Nominal AC Voltage	230V			
Nominal Grid Frequency	50 / 60Hz			
Voltage Waveform	Pure Sine Wave			
Transfer Time (Typ)	4ms			
Nominal Output Current	13.1A	15.7A	17.4A	18.3A
Overload Protection	30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load			
THDv (@linear load)	<3%			

Efficiency

Peak Efficiency	94%
MPPT Efficiency	≥ 99.9%

Protect

DC Surge Protection	Yes
AC Surge Protection	Yes
AC Short Circuit Protection	Yes

System Parameters

Dimension (W*H*D)	333*505*120mm
Weight	10.6kg
Relative Humidity	5%~95% (Non-condensing)
Operating Temperature Range	-10°C~60°C
Noise Emission	≤ 50dB
Altitude	2000m
Cooling Method	Fan Cooling
Ingress Protection	IP21

Characteristic

Number of AC Output	2
Display	LCD & APP
Communication Interface	RS485 / USB / CAN / Wi-Fi
Parallel Capability	9