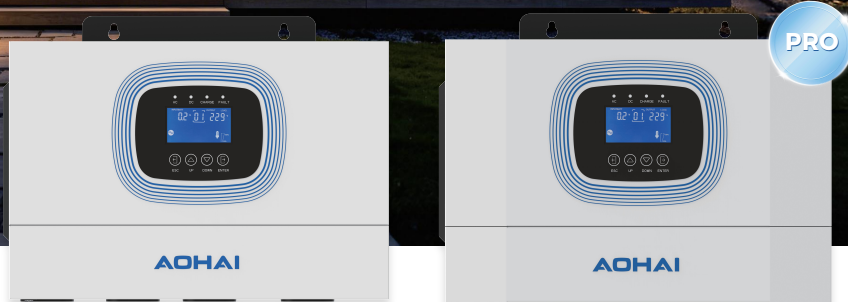


Off-Grid Inverter

**FSF-2K1P-BL**  
**FSF-2K1P-BL-PRO**  
**「2kW」**



**Features**

**Full Output in Battery Mode**  
 Deliver rated 2kW full power when battery voltage exceeds 12.5V

**High-Temperature Adaptability**  
 Maintain continuous full-power output at 40°C without power derating

**Overload Capacity**  
 Peak power to reach 2 times the rated power for 5s in off-grid mode

**High-Power Charge / Discharge**  
 Max. 150A charge current, max. 160A discharge current

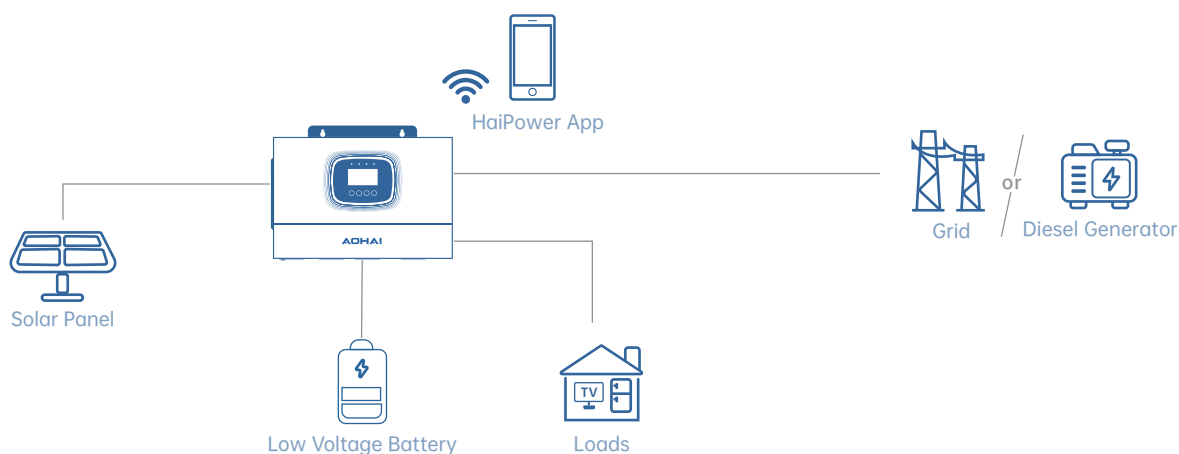
**Communication Port & BMS Supported**  
 Equipped with CAN / RS485 ports, enabling real-time BMS communication

**CT Connection Supported**  
 CT port equipped for CT connection to support anti-backflow function

**Seamless Switchover**  
 UPS-level switching time: 4ms

**Smart Monitoring**  
 Built-in WiFi module enables seamless connection with HaiPower App

**Off-grid Solution**



# Specifications

## Technical Data

### FSF-2K1P-BL

### FSF-2K1P-BL-PRO

#### Solar Input Data

Max. PV Input Power	2600W	
Max. Input Voltage	400V	
Start-up Voltage	50V	
MPPT Voltage Range	30V~400V	
Max. Input Current per MPPT	16A	
Max. Short Circuit Current per MPPT	22A	
Number of MPPT	1	

#### AC Input Data (Grid&Generator)

Nominal Input Voltage	230Vac	
Input Voltage Range	90~280V	
Max. Input Current	15A	
Nominal Input Power	3450W	
AC Frequency Range	50 / 60Hz (Auto sensing)	

#### Battery Data

Battery Type	Li-Ion / Lead-acid	
Nominal Battery Voltage	12V	
Battery Voltage Range	10~15V	
Max. Discharge Current	100A	160A
Max. Charge Power	1000W	1600W
Li-Ion Battery Activation	Yes	
Li-Ion Battery Communication	CAN / RS485	
Max. Solar Charge Current	100A	150A
Max. AC Charge Current	100A	120A
Max. Charge Current (PV+AC)	100A	150A

#### Inverter Output Data

Nominal Output Power	2000W with PV & Battery 1000W with Battery only	2000W
Peak Apparent AC Power	4000W	
Nominal AC Voltage	230V	
Nominal Grid Frequency	50 / 60Hz	
Voltage Waveform	Pure Sine wave	
Transfer Time	4ms	
Max. Output Current	8.7A	
Overload Protection	5s@130%-200% load; 30s@110%-130% load; 60s@102%-110% 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)	363*266*100mm
Weight	4.3kg
Relative Humidity	5%~95%
Operating Temperature Range	-10°C~60°C
Noise Emission	≤50dB
Altitude	2000m
Cooling Method	Fan Cooling
Ingress Protection	IP21

#### Characteristic

Number of AC Output	1
Display	Segment LCD&APP
Communication Interface	RS485 / CAN / Wi-Fi
Parallel Capability	/