

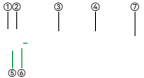
EU STANDARD 220V HYBRID
SOLAR INVERTER

6.5KW Features >

- Lithium battery activation function, which can be triggered by PV
- Pure Sine Wave
- PV input 500VDC Max
- MPPT Voltage 60-450VDC
- Detachable dust cover for harsh environment
- Wifi remote monitoring optional
- Supports parallel operation (Optional)



Bottom view



1. AC Input
2. AC Output
3. Battery Input
4. PV Input
5. WiFi Port optional
6. BMS Port optional
7. Power on/ off switch

6.5KW Maximum number of parallel units: 9

TECHNICAL PARAMETER

Model	HF06KS-48MH	HF06KS-48MH (Parallel version)
AC Input		
Nominal Input Voltage	208/220/230/240VAC; L+N+PE	
Voltage Range (VAC)	90~280V (APP MODE) 90~280V (GEN MODE) 170~264V (UPS MODE)	
Frequency	40~70Hz (Adaptive)	
AC Output		
Rated Capacity	6500W	
Peak Power	12000VA	
Nominal Output Voltage	208/220/230/240VAC; L+N+PE	
Voltage Range (Settable)	90~280V (Appliance/Generator mode) 170~264V (UPS mode)	
Power Factor	1	
Frequency	Line mode: Follow line mode frequency; Battery mode: 50 / 60 Hz ± 0.1%	
Switch Time (Line Mode to Battery Mode)	UPS mode: 10ms (Typical) Appliance mode: 10ms (Typical) Generator mode: 20ms (Typical)	
Wave Form	Pure Sine Wave	
Overload Capacity (Battery Mode)	1min@102%~120%Load 10s@ > 120%Load	
Max Efficiency (Battery Mode)	94%@48VDC	
Parallel Quantity	-	9
Charger (PV / AC)		
PV Charging method	MPPT	
MPPT Voltage	60-450VDC	
Max PV Input Current / Input Power	27A/6KW	
Max PV Open Circuit Voltage	500VDC	
Max PV Charge Current	120A	
AC Charge Current	2-120A Settable	
Max Charge Current (AC + PV)	120A	
Battery		
Nominal Voltage	48VDC	
Maximum Discharge Current	120A (default) / 140A (can set)	
Constant Charge Voltage (Settable)	56.4VDC	
Floating Charge Voltage (Settable)	54VDC	
Battery Over Voltage	61VDC	
BMS Protocol (Optional)	VOLGRO,PYLIBO,CVT	
Battery Type	Lithium / VRLA	
Interface		
HMI	LCD, 4 buttons + 4 LED lights, can display running/input/output/load mode	
Port	RS232: SPIN/Pitch2.0mm, Baud 9600	RS232: SPIN/Pitch2.0mm, Baud 9600/Parallel Interface
Expansion Interface	2×13PIN/Pitch2.0mm, 1×12PIN/Pitch2.0mm, USB, RJ45, etc	
Parallel Interface	-	Parallel Interface
Monitoring	WIFI (Optional)	
General Data		
Ingress Protection	IP21	
Operating Temperature	-10~60 °C (Reduce output power to 80% above 40 °C)	
Environment Humidity	20%~95% (No condensing)	
Storage Temperature	-15~60°C (Battery: 0~40°C)	
Operating Altitude	Should not exceed 1000m, up to 4000m. Refer to IEC62040-3	
Noise	≤50db	
product size / packing size (mm)	410*336*121mm / 490*394*188mm	
Net / Gross Weight (kg)	8.32kg / 9.48kg	