



## FH (3-6)K-1PHVG1-EU

Single-Phase High Voltage Residential Hybrid Inverter

[www.faradayess.com](http://www.faradayess.com)



### High Flexibility

UPS level switching time <10ms



### Easy Installation

Light weight and flexible configuration



### Professional Service

Experienced expert team to provide 24/7 service



### IP65 Rated

Engineered to test with maximum suitable for outdoor installation



### Energy Management

Monitor your system remotely via smartphone app or web portal

MODEL	3KW	3.7KW	4KW	5KW	6KW
<b>DC</b>					
DC Input Power (KW)	3.9KW	4.68KW	5.2KW	6.5KW	7.8KW
Start-up Voltage (V)	80V				
Max.DC Voltage(V)	600V				
DC Voltage Range(V)	80V-600V				
MPPT Operating Voltage Range[V]/ Rated Voltage(V)	80V-550V/360V				
Max. Input Current [A]	15A				
No.of independent MPPT Trackers/No.of String per MPPT Tracker	2/1+1				

<b>Grid-connected AC Side</b>					
Rated Output Power(KW)	3KW	3.68KW	4KW	5KW	6KW
Max. Output Power [KVA]	3.3KVA	4.5KVA	4.5KVA	5.5KVA	6.5KVA
Max. Output Current [A]	15A	19A	21A	25A	26.5A
Output Voltage Range(V)	180V-280V/230V				
Grid Frequency [Hz]	50/60 ±5Hz				
Power Factor	1				
Power Factor Adjustment range	Adjustable from 0.8 leading to 0.8 lagging				
THDi	<3%				
Type Of Grid Connection	1+N+PE				

<b>Off-grid AC side</b>	
Rated Output Power(W)	6000W
Rated Output Voltage(V)	230V
Rated Output Frequency(Hz)	50Hz

MODEL	3KW	3.7KW	4KW	5KW	6KW
<b>Battery</b>					
Battery Voltage Range (V)	85-450V				
Max. Charge Voltage(V)	450V				
Max. Charge Current (A)	40A				
Max. Charge Power (W)	4000W (Battery 0.5C)		5000W (Battery 0.5C)		
Connectable Battery Type	Li-Ion Battery				
Recommended Power(kWh)	5-15kWh				

<b>Efficiency</b>	
Max. Efficiency	97.60%
Euro Efficiency	97%
MPPT Efficiency	99.80 %

<b>Other</b>	
Security Level	Class I
Protection	DC input switch, DC anti-reverse, battery reverse connection, output over-current, over-voltage, ground fault, over-temperature, abnormal grid voltage, abnormal frequency, etc.
Protection Degree	IP65
Operating Temperature Range ( C )	-25 C -+60 C
Altitude / Noise (dB)/ Standby Consumption(W)	No Derating Below 2200m / ≤35dB / <4W
Topology	Transformerless
Cooling Method	Natural Cooling
Communication Method	CAN, 485, Wifi, GPRS
Inverter Communication With BMS	CAN and 485
On-grid/off-grid Switching Time	≤10ms
Safety	EN 62109-1, EN 62109-2
EMC	EN 61000-6-2, EN 61000-6-3
Grid Regulation	EN50549-1, C10 / 11, VDE-AR-N 4105, G98, G99, CEIO-21,NRS 097-2-1, AS / NZS 4777.2

