

# FH (3.6-6)K-1PLVG1-EU

Single-Phase Low Voltage  
Residential Hybrid Inverter

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



Support diesel generator connection



Support Max. 16pcs parallel



Colorful touch LCD



IP65 protection degree



Max. charging/discharging current of 120A



Support remote control/  
change settings without internet

MODEL	FH 3.6K-1PLVG1-EU	FH 4K-1PLVG1-EU	FH 4.6K-1PLVG1-EU	FH 5K-1PLVG1-EU	FH 6K-1PLVG1-EU
<b>PV input</b>					
Vmax PV (Vdc) (absolute Max.)	500	500	500	500	500
Max. PV input current / Isc PV (A)	13+13 / 17+17	13+13 / 17+17	13+13 / 17+17	13+13 / 17+17	13+13 / 17+17
No.of MPPT Trackers / Number input strings	2 / 1+1	2 / 1+1	2 / 1+1	2 / 1+1	2 / 1+1
MPPT voltage range (@ full power) (Vdc)	125-425 (240-425)	125-425 (240-425)	125-425 (240-425)	125-425 (240-425)	125-425 (240-425)
Power pv Max(kW)	4.68	5.2	5.98	6.5	7.8
<b>Battery (charge/discharge)</b>					
Battery type	Li-ion/Lead-acid				
Battery Norma Voltage (Range) (Vdc)	48V (40-60V)				
Max charge/discharge Current(A)	90	100	110	120	120
Max charge/discharge Power(kW)	3.96	4.4	5.06	5.5	5.5
<b>AC Grid (input and output)</b>					
Input/Output Frequency and Voltage	50 / 60Hz; 230Vac (single phase)				
Normal / Max. input/output current (A)	15.7 / 18	17.4 / 19.1	20 / 22	21.7 / 25	26 / 26
Max. cont. Power / Apparent Power (kW/kVA)	3.96 / 3.96	4.4 / 4.4	5.06 / 5.06	5.5 / 5.5	6.0 / 6.0
Power factor(adjustable)	1.0( -0.8~ +0.8)				
<b>AC Load output (stand alone)</b>					
Input/Output Frequency and Voltage	50 / 60Hz; 230Vac (single phase)				
Nominal Current(A)	15.7	17.4	20	20	26
Max. cont. Power / Apparent Power (kW/kVA)	3.96 / 3.96	4.4 / 4.4	5.06 / 5.06	5.5 / 5.5	6.0 / 6.0
Power factor(adjustable)	1.0( -0.8~ +0.8)				
<b>Efficiency</b>					
Max.Efficiency / Euro Efficiency / MPPT Efficiency	97.60% / 97.00% / 99.90%				
<b>Protection</b>					
Integrated Protection	PV Input Lightning Protection / Anti-islanding Protection / DC circuit breaker / PV String Input Reverse Polarity Protection / Insulation Resistor Detection / Residual Current Monitoring Unit / Output Over Current Protection / Output Shorted Protection / Output Over Voltage Protector				
Surge Protection	DC Typell/AC Type II				
<b>Certifications and Standards</b>					
Grid Regulation	VDE 0126,AS4777,NRS2017,G98,G99,IEC61683,IEC62116,IEC61727				
Safety Regulation	IEC62109-1,IEC62109-2				
EMC	EN61000-6-1.EN61000-6-3,FCC 15class B				
<b>General Data</b>					
Operating Temperature Range (C) / Protection Degree / Cooling / Noise (dB) / Protective class	-25~60C,>45C Derating / IP65 / Smart cooling / <30 dB / Class I				
Weight (kg)	22.5				
Size (mm)	340Wx580Hx225D				
Installation Style	Wall-mounted				
Warranty	5 years				

