

HOUSEHOLD ENERGY STORAGE SYSTEM

Single Phase Hybrid Inverter



HF-HL3K~8K-P1EU

Single Phase Hybrid Inverter

Easy to install

A variety of intelligent
working modes

Remote monitoring
via APP or Web

Support BMS communication

IP65, fanless design,
long lifespan

With UPS function,
switch time<10ms

Model	HF-HL3K-P1EU	HF-HL3K6-P1EU	HF-HL4K-P1EU	HF-HL4K6-P1EU	HF-HL5K-P1EU	HF-HL6K-P1EU	HF-HL7K-P1EU	HF-HL8K-P1EU
Inverter Input/Output (Grid)								
Rated Power	3kW	3.6kW	4kW	4.6kW	5kW	6kW	7kW	8kW
Voltage (Nominal or Range)	230Vac./176Vac.~270Vac., L+N+PE							
Frequency (Nominal or Range)	50/60 Hz							
Power Factor Range	0.8leading~ 0.8lagging							
Wave Form	Pure Sine Wave							
Switch Time	<10 ms							
Current (Maximum Continuous)	13 A a.c.	15.6 A a.c.	174 A a.c.	20 A a.c.	21.7 A a.c.	26.1 A a.c.	30.4 A a.c.	34.7 A a.c.
Max. Output Overcurrent Protection	250 V a.c./63 A a.c.							
Battery								
Battery Type	Lithium/Lead-acid							
Battery Voltage Range	45-58 V							
Nominal Battery Voltage	51.2 V							
Max. Charge Current	60 A a.c.	70 A a.c.	80 A a.c.	90 A a.c.	100 A a.c.	110 A a.c.	120 A a.c.	150 A a.c.
Max. Discharge Current	60 A a.c.	70 A a.c.	80 A a.c.	90 A a.c.	100 A a.c.	110 A a.c.	120 A a.c.	150 A a.c.
Reverse Connect Protection	Yes							
Pv Input								
No. of MPPT Tracker/Strings	2/1+1							
Max. PV Array Power	4.5kW	5.4kW	6kW	6.9kW	7.5kW	9kW	9kW	9kW
Max. DC Voltage	550 V d.c.							
MPPT Voltage Range	120-500 V d.c.							
Start-up Voltage	120 V d.c.							
Max. Input Current	16/16 A d.c.							
Isc PV (Absolute Maximum)	24/24 A d.c.							
Ac Output (EPS)								
EPS Rated Output Voltage	230 V a.c.							
EPS Rated Output Frequency	50/ 60 Hz							
EPS Rated Output Active Power	3kW	3.6kW	4kW	4.6kW	5kW	6kW	7kW	8kW
EPS Rated Output Apparent Power	3kVA	3.6kVA	4kVA	4.6kVA	5kVA	6kVA	7kVA	8kVA
EPS Rated Output Current	13 A a.c.	15.6 A a.c.	174 A a.c.	20 A a.c.	21.7 A a.c.	26.1 A a.c.	30.4 A a.c.	34.7 A a.c.
EPS Output Power Factor	0.8 leading~ 0.8 lagging							
Overload Capacity	110% 30 s/120% 10 s/150% 0.02 s							
EPS Output inrush Current	96 A a.c. @ 3 μs							
EPS Max. Output Fault Current	96 A a.c. @ 3 μs							
Efficiency								
MPPT Efficiency	90.90%							
Euro-efficiency	97.00%							
Max. Efficiency	97.80%							
Protection & Feature								
Insulation Monitoring	Yes							
Residual Current Monitoring	Yes							
Parallel Function	Yes							
Protection Degree	IP65							
Certifications	CE10-21,EN 50549-1,VDE-AR-N 4105, UNE 217002,NTSTYPEA, G99, AS/NZS 4777.2							
Other Protection	Overload, Over temperature, Shortcircuit protection,Active anti-islanding method							
General Parameter								
Storage Temperature	-25°C~+60°C							
Operating Temperature	-25°C~+60°C (Linearly derating to 80% when exceed +45°C ~+60°C)							
Humidity	0-100%(Non-condensing)							
Altitude	2000 m (>2000 m Derating)							
Noise	<35 dB							
Dimensions (L*W*H)	556*206*506 mm							
Shipping Dimensions (L*W*H)	650*375*592 mm							
Machine weight/ N.W.	25.6 kg							
Display&Communication								
Display	LED							
Interface	CAN/RS485/Bluetooth/WiFi/4G/DRM							