

Hybrid Inverter

8-12kW

Ei.H008KL-012KL

Single-phase Hybrid Inverter (Low voltage)



* Product appearance may vary



High-efficiency



Safe & Stable



User-friendly

- Colorful touch screen with friendly and easy control
- Up to **3 MPPTs** and **40A** input per one, compatible with the latest high-power PV modules
- **200%** overload for **10 seconds**, ensuring reliable startup of inductive loads
- Switching time **<10 ms**, providing seamless transition between on-grid and off-grid modes
- AC coupling compatibility for flexible system expansion
- Up to **240A** (dis)charging current, enabling faster charging and strong discharge capability

- Battery optional for off-grid mode, offering flexible design and reducing initial investment cost
- Flexible battery configuration, allowing users to choose the most suitable capacity for each application
- **Export power control** for precise grid-feeding to meet local regulations
- Up to **6 units** parallel operation in off-grid mode, enabling scalable and reliable energy systems
- **IP66** protection rating, ensuring dependable operation in harsh environmental conditions

Models	Ei.H008KL -A1.23-P1NV-L	Ei.H010KL -A1.23-P1NV-L	Ei.H012KL -A1.34-P1NV-L
PV input data			
Recommend max. PV capacity (Wp)	16000	20000	24000
Max. PV input power (W)	12800	16000	19200
Max. PV input voltage (V)		600	
Rated voltage (V)		360	
Start voltage (V)		62	
MPPT voltage range (V)		65-550	
Max. PV input current (A)	40/20	40/20	40/20/20
Max. short-circuit current per MPPT (A)	50/30	50/30	50/30/30
MPPT number	2	2	3
No. of PV strings per MPPT	2/1	2/1	2/1/1
Battery input data			
Battery type	Li-ion/Lead-acid		
Battery voltage range (V)	40~60		
Max. charging current (A)	160	200	240
Max. discharging current (A)	160	200	240
AC output/input Data (grid side)			
Rated output power (W)	8000	10000	12000
Max output power (VA)	8800	11000	13200
Rated output current (A)	36.4/34.8	45.5/43.5	54.5/52.2
Max output current (A)	40	50	60
Max. input power (W)	12000	15000	18000
Max. input current (A)	54.5	68.2	81.8
Operation phase	L+N+PE		
Rated output voltage (V)	220/230		
Rated frequency (Hz)	50/60		
THDi	<3%		
Power factor	1 (0.8leading~0.8lagging)		
AC output (backup)			
Rated output power (W)	8000	10000	12000
Peak power (VA,s)	16000, 10	20000, 10	24000, 10
Rated output current (A)	36.4/34.8	45.5/43.5	54.5/52.2
Rated output voltage (V)	220/230		
Rated frequency (Hz)	50/60		
Switch time (ms)	<10		
Generator data			
Rated input power (W)	8000	10000	12000
Max. apparent input power (VA)	11000	12000	12000
Max. input current (A)	50.0	54.5	54.5
Rated input voltage (V)	220/230		
Rated frequency (Hz)	50/60		
Efficiency			
Max. efficiency	97.60%		
EU efficiency	97.00%		
Protection			
DC switch	Yes		
DC reverse-polarity connection protection	Yes		
Thermal protection	Yes		
AC overvoltage/current protection	Yes		
AC short circuit protection	Yes		
Ground fault circuit interrupter	Yes		
Power network monitoring	Yes		
Island protection	Yes		
Ground fault monitoring	Yes		
Insulation resistance monitoring	Yes		
Residual current detection	Yes		
PID recovery	Optional		
Arc fault circuit interrupter	Optional		
Surge protection	AC Typell/DC Typell		
General			
Dimensions (W*H*D mm)	426*630*241		
Weight (kg)	31		
Noise (dB)	<45		
Operating temperature (°C)	-25~60 (>45°C derating)		
Type of cooling	Smart air cooling		
Topology	Transformless		
Communication	RS485/CAN		
Permissible altitude (m)	3000 (>2000m derating)		
Permissible ambient humidity	0~100%		
Ingress protection (IP) grade	IP66		
Warranty	5/10 years; (More info refers to the warranty policy)		
Display	LCD+LED		
Grid regulation	IEC61727,IEC62116(Additional certifications in progress. See website for updates.)		
Safety EMC/Standard	IEC EN 61000-6-3; IEC62920; IEC62109-1/2		