

# Hybrid Inverter

3-8kW

# Ei.H003KL-008KL

Single-phase Hybrid Inverter (Low voltage)



Flexible Design



Safe & Stable



User-friendly

- Colorful touch screen with friendly and easy control
- Fanless design for lower noise and improved reliability
- 24/7 online monitoring with remote upgrades & support
- Flexible battery configuration, allowing selection of the optimal capacity for different applications
- Up to **2 MPPTs** for simplified system design and easier string layout
- **200%** DC/AC ratio for maximum solar power utilization
- Up to **140A** (dis)charging current, enabling faster charging and strong discharge capability

- Battery optional for off-grid mode, offering flexible design and reducing initial investment cost
- **Export power control** for precise grid-feed to meet local regulations
- Up to **6 units** parallel operation in off-grid mode, enabling scalable and reliable energy systems
- Optional AFCI function for enhanced fire protection and long-term system reliability
- Integrated **Type II SPD** on both DC and AC sides for safe protection

Models	Ei.H003KL -A1.11-P1NV-L	Ei.H3.6KL -A1.22-P1NV-L	Ei.H004KL -A1.22-P1NV-L	Ei.H005KL -A1.22-P1NV-L	Ei.H006KL -A1.22-P1NV-L	Ei.H7.5KL -A1.22-P1NV-L	Ei.H008KL -B1.22-P1NV-L
<b>PV input data</b>							
Recommend max. PV capacity (W)	6000	7200	8000	10000	12000	15000	16000
Max. PV input power (W)	4800	5760	6400	8000	9600	12000	12800
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)	20	20/20	20/20	20/20	20/20	20/20	20/20
Max. short-circuit current per MPPT (A)	30	30/30	30/30	30/30	30/30	30/30	30/30
MPPT number	1	2	2	2	2	2	2
NO. of PV strings per MPPT	1	1/1	1/1	1/1	1/1	1/1	1/1
<b>Battery input data</b>							
Battery type	Li-ion/Lead-acid						
Battery voltage range (V)	40~60						
Max. charging current (A)	70	90	100	120	140	150	160
Max. discharging current (A)	70	90	100	120	140	150	160
<b>AC output/input Data (grid side)</b>							
Rated output power (W)	3000	3600	4000	5000	6000	7500	8000
Max. output power (VA)	3300	3960	4400	5500	6600	8250	8800
Rated output current (A)	13.7/13.1	16.4/15.7	18.2/17.4	22.8/21.7	27.3/26.1	34.1/32.6	36.4/34.8
Max. output current (A)	15.0	18.0	20.0	25.0	30.0	37.5	40.0
Max. input power (W)	4500	5400	6000	7500	9000	11250	12000
Max. input current (A)	20.5	24.5	27.3	34.1	40.9	51.1	54.5
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)						
<b>AC output (backup)</b>							
Rated output power (W)	3000	3600	4000	5000	6000	7500	8000
Peak power (VA,s)	6000, 10	7200, 10	8000, 10	10000, 10	12000, 10	15000, 10	16000, 10
Rated output current (A)	13.7/13.1	16.4/15.7	18.2/17.4	22.8/21.7	27.3/26.1	34.1/32.6	36.4/34.8
Rated output voltage (V)	220/230						
Rated frequency (Hz)	50/60						
Switch time (ms)	<10						
<b>Generator data</b>							
Rated input power (W)	3000	3600	4000	5000	6000	7500	8000
Max. apparent input power (VA)	3300	3960	4400	5500	6600	8250	8800
Max. input current (A)	15.0	18.0	20.0	25.0	30.0	37.5	40.0
Rated input voltage (V)	220/230						
Rated frequency (Hz)	50/60						
<b>Efficiency</b>							
Max. efficiency	97.60%						
EU efficiency	97.00%						
<b>Protection</b>							
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						
<b>General</b>							
Dimensions (W*H*D mm)	391*525*211						
Weight (kg)	18						
Noise (dB)	<45						
Operating temperature (°C)	-25~60 (>45°C derating)						
Type of cooling	Natural cooling						
Topology	Transformless						
Communication	RS485/CAN						
Permissible altitude (m)	3000 (>2000m derating)						
Permissible ambient humidity	0~100%						
Ingress protection (IP) grade	IP66						
Warranty	5 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						