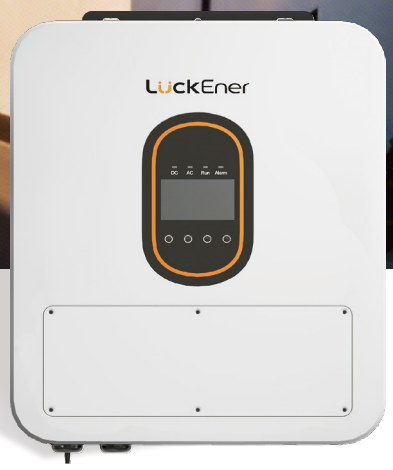
LuckEner

Hybrid Inverter 3-7kW

Ei.H003KL-007KL-B

Single-phase Hybrid Inverter (Low Voltage)



Our Features

* Product appearance may vary

- 2 MPPTs with 20A input, fits high-power modules
- Wide input voltage range for longer running hours
- 200% overload to easily start inductive loads
- Up to 140A high charge/discharge current
- Support excess power export to the grid
- Parallel operation in off-grid mode

Models	Ei.H003KL -B1.11-P1NV-L	Ei.H3.6KL -B1.22-P1NV-L	Ei.H004KL -B1.22-P1NV-L	Ei.H005KL -B1.22-P1NV-L	Ei.H006KL -B1.22-P1NV-L	Ei.H007KL -B1.22-P1NV-L
PV input data						
Recommend max. PV capacity (Wp)	6000	7200	8000	10000	12000	14000
Max. PV input power (W)	4800	5760	6400	8000	9600	11200
Max. PV input voltage (V)	500					
Rated voltage (V)	370					
Start voltage (V)	100					
MPPT voltage range (V)	100-450					
Max. PV input current (A)	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
MPPT number	1	2	2	2	2	2
NO. of PV strings per MPPT	1	1/1	1/1	1/1	1/1	1/1
Battery input data						
Battery type	Li-ion/Lead-acid					
Battery voltage range (V)	40~60					
Max. charging current (A)	70	90	100	120	140	140
Max. discharging current (A)	70	90	100	120	140	140
AC input Data(grid side)						
Max. input power (W)	4500	5400	6000	7500	9000	10500
Max. input current (A)	20.5	24.5	27.3	34.1	40.9	47.7
Operation phase	L+N+PE					
Rated voltage (V)	220/230					
Rated frequency (Hz)	50/60					
THDi	< 3%					
Power factor	>0.99 (0.8 leading~0.8lagging)					
AC output (backup)						
Rated output power (W)	3000	3600	4000	5000	6000	7000
Peak power (VA,s)	6000, 10	7200, 10	8000, 10	10000, 10	12000, 10	14000, 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	31.8/30.4
Rated output voltage (V)	220/230					
Rated frequency (Hz)	50/60					
Switch time (ms)	<10					
Generator data						
Rated input power (W)	3000	3600	4000	5000	6000	7000
Max. apparent input power (VA)	3300	3960	4400	5500	6600	7700
Max. input current (A)	15.0	18.0	20.0	25.0	30.0	35.0
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					
Arc fault circuit interrupter	Optional					
Surge protection	AC TypeII/DC TypeII					
General						
Dimensions (W*H*D mm)	389*460*155					
Weight (kg)	16					
Noise (dB)	<45					
Operating temperature (℃)	-25~60 (>45℃ derating)					
Type of cooling	Smart air cooling					
Topology	Transformerless					
Communication	RS485/CAN, Bluetooth, WIFI(optional)					
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					
Safety EMC/Standard	IEC EN 61000-6-1/2/3/4; IEC62920; IEC62109-1/2					

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