LuckEner

Hybrid Inverter 3-7kW

Ei.H003KL-007KL-A

Single-phase Hybrid Inverter (Low Voltage)



* Product appearance may vary

Our Features

- 4.3" color touch screen for easy control
- 200% DC/AC ratio to maximize solar yields
- Max. 160A charge/discharge current
- Parallel operation in off-grid mode
- Optional AFCI function for active fire protection
- Integrated Type II SPD on both DC & AC sides

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
PV input data						
Recommend max. PV capacity (Wp)	6000	7200	8000	10000	12000	15000
Max. PV input power (W)	4800	5760	6400	8000	9600	12000
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
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	150
Max. discharging current (A)	70	90	100	120	140	150
AC output/input Data (grid side)						
Rated output power (W)	3000	3600	4000	5000	6000	7500
Max. output power (VA)	3300	3960	4400	5500	6600	8250
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
Max. output current (A)	15.0	18.0	20.0	25.0	30.0	37.5
Max. input power (W)	4500	5400	6000	7500	9000	11250
Max. input current (A)	20.5	24.5	27.3	34.1	40.9	51.1
Operation phase	L+N+PE					
Rated output 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	7500
Peak power (VA,s)	6000, 10	7200, 10	8000, 10	10000, 10	12000, 10	15000, 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
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	7500
Max. apparent input power (VA)	3300	3960	4400	5500	6600	8250
Max. input current (A)	15.0	18.0	20.0	25.0	30.0	37.5
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 TypeII/DC TypeII					
General						
Dimensions (W*H*D mm)	391*525*211					
Weight (kg)	18					
Noise (dB)	<45					
Operating temperature (℃)	-25~60 (>45℃ derating)					
Type of cooling	Natural 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 regualtion	IEC61727; IEC62116; PEA; MEA; EN50549 (Additional certifications in progress. See website for updates.)					
Safety EMC/Standard	IEC EN 61000-6-1/2/3/4; IEC62920; IEC62109-1/2					

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