LuckEner

Hybrid Inverter 3-26kW

Ei.H003KL-026KL

Three-phase Hybrid Inverter (Low Voltage)



* Product appearance may vary

Our Features

- 4.3" color touch screen for easy control
- 3× AC bypass input & 1.5× backup output
- Three-phase unbalanced output for flexible load management
- <10ms switching time for seamless UPS backup
- Max. 410A charge/discharge current
- Parallel operation in off-grid mode

Models	Ei.H003KL -A1.11-P3NV-L	Ei.H004KL -A1.11-P3NV-L	Ei.H005KL -A1.11-P3NV-L	Ei.H006KL -A1.22-P3NV-L	Ei.H008KL -A1.22-P3NV-L	Ei.H010KL -A1.33-P3NV-L	Ei.H012KL -A1.33-P4NV-L	Ei.H015KL -A1.33-P3NV-L	Ei.H016KL -A1.34-P3NV-L	Ei.H018KL -A1.34-P3NV-L	Ei.H020KL -A1.34-P3NV-L	Ei.H025KL -A1.34-P3NV-L	Ei.H026KL -A1.34-P3NV-L
PV input data													
Recommend max. PV capacity (Wp)	6,000	8,000	10,000	12,000	16,000	20,000	24,000	30,000	32,000	36,000	40,000	40,000	40,000
Max. PV input power (W)	4,800	6,400	8,000	9,600	12,800	16,000	19,200	24,000	25,600	28,800	30,000	30,000	30,000
Max. PV input voltage (V)	1000												
Rated voltage (V)	600												
Start voltage (V)	180												
MPPT voltage range (V)	150~850												
Max. PV input current (A)	20			20/20		20/20/20			40/20/20				
Max. short-circuit current per MPPT (A)	30			30/30		30/30/30			50/30/30				
MPPT number	1			2		3			3				
No. of PV strings per MPPT	1			1+1		1+1+1			2+1+1				
Battery input data													
Battery type	Li-ion												
Battery voltage range (V)	40~60												
Max. charging current (A)	110	110	125	150	200	220	250	290	410				
Max. discharging current (A)	110	110	125	150	200	220	250	290	410				
AC output/input data(grid side)													
Rated output power (W)	3,000	4,000	5,000	6,000	8,000	10,000	12,000	15,000	16,000	18,000	20,000	25,000	26,000
Max output power (VA)	3,300	4,400	5,500	6,600	8,800	11,000	13,200	16,500	17,600	19,800	22,000	27,500	28,600
Rated output current (A)	4.5/4.3	6.1	7.6	9.1	12.1	15.2	18.2	22.7	24.2	27.3	30.3	37.9	39.4
Max output current (A)	5.0	6.7	8.3	10.0	13.3	16.7	20.0	25.0	26.7	30.0	33.3	41.7	43.3
Max. input power (W)	9,000	12,000	15,000	18,000	24,000	30,000	30,000	30,000	40,000	40,000	40,000	40,000	40,000
Max. input current (A)	13.6	18.2	22.7	27.3	36.4	45.5	45.5	45.5	60.6	60.6	60.6	60.6	60.6
Operation phase	3L+N+PE												
Rated output voltage (V)	220/380V; 230/400V												
Rated frequency (Hz)	50/60												
THDi	< 3%												
Power factor	>0.99 (0.8 leading~0.8lagging)												
AC output (backup)													
Rated output power (W)	3,000	4,000	5,000	6,000	8,000	10,000	12,000	15,000	16,000	18,000	20,000	20,000	20,000
Peak power (VA,s)	2times, 10s												
Rated output current (A)	4.5	6.1	7.6	9.1	12.1	15.2	18.2	22.7	24.2	27.3	30.3	30.3	30.3
Rated output voltage (V)	220/380V; 230/400V												
Rated frequency (Hz)	50/60												
Switch time (ms)	<10												
Generator data													
Rated input power (W)	3,000	4,000	5,000	6,000	8,000	10,000	12,000	15,000	16,000	18,000	20,000	20,000	20,000
Max. apparent input power (VA)	4,500	6,000	7,500	9,000	12,000	15,000	18,000	22,500	24,000	27,000	30,000	30,000	30,000
Max. input current (A)	6.8	9.1	11.4	13.6	18.2	22.7	27.3	34.1	36.4	40.9	45.5	45.5	45.5
Rated input voltage (V)	220/380V; 230/400V												
Rated frequency (Hz)	50/60												
Efficiency													
Max. efficiency	97.6%												
EU efficiency	97%												
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)	490*738*245												
Weight (kg)	48												
Noise (dB)	<60												
Operating temperature (℃)	-25~60 (>45℃ derating)												
Type of cooling	Smart air cooling												
Topology	Transformerless												
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 61000-6-1/2/3/4; IEC62920; IEC62109-1/2												

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