LuckEner

Hybrid Inverter 8-12kW

Ei.H008KL-012KL-A

Single-phase Hybrid Inverter (Low Voltage)



Our Features

- 4.3" color touch screen for easy control
- Max. 3 MPPTs with 40A input, fits high-power PV modules
- 200% overload to easily start inductive loads
- <10ms switching time for seamless UPS backup
- Max. 240A charge/discharge current
- Parallel operation in off-grid mode

Models	Ei.H008KL -A1.23-P1NV-L	Ei.H010KL -A1.23-P1NV-L	Ei.H012KL -A1.24-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)		150-540	
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		>0.99 (0.8 leading~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%	
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)		426*630*241	
Weight (kg)		31	
Noise (dB)		<45	
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; MEA; PEA; EN50549; IEC61683 (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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