

RELIABLE ENERGY FOR ALL

LuckEner Brand Profile

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RELIABLE ENERGY FOR ALL

To Become a Customer-Favorite Provider
of Smart Energy Solutions



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01 ABOUT LUCKENER

- Where are we from
About Lutian
- Who we are
About LuckEner

National Enterprise Standard Leader

About LUTIAN

Leading the machinery industry with green engine innovation

Founded in 2002, Lutian Corporation is a national high-tech enterprise specializing in the R&D, production and sales of PV & ESS, engine products and pressure washers. It was listed on the main board of A-share of SSE in 2021 with stock ticker 605259, becoming the first stock in China's pressure washer industry, and also the company drafting national standards



300,000 m²
Manufacturing Base



2,500+
Employees



120+
Global Markets



USD 360 Million
2025 Revenue

We are LuckEner

01 INTRODUCTION

LuckEner is a brand powered by Lutian, dedicated to advancing green energy solutions and driving global energy transformation.

With next-generation technologies and deeply localized design, we create high-performance energy solutions that deliver steady performance, cost savings, and peace of mind.

Our mission is to provide reliable, affordable, and intelligent energy systems that truly improve people's lives.

02 OUR VALUE



We build trust for shared success



We seek truth and deliver results



We innovate through collaboration



We excel with professional and reliability

03 OUR MISSION

Empowering energy equity, and driving global sustainable development with clean energy



4+

R&D Centers

300+

R&D Experts

LuckEner
绿田能源

Milestones of Growth



Business Scope



Powered by Lutian's global capabilities, LuckEner is expanding its presence across international markets, providing reliable energy solutions to customers around the world.

Awards & Patents

Patents



Honors



10+
National Honors

15+
Provincial Honors

116+
Invention Patents

Why Choose LuckEner



01

Core Technologies

- High-efficiency SiC devices
- Smart control algorithms
- Optimal performance & reliability



02

Energy Storage

- Modular & scalable architecture
- Flexible On/off-grid & hybrid
- Integrated VSG technology



03

Grid Integration

- High renewable penetration
- Enhanced weak-grid resilience
- Global certification compliance



04

Smart Energy

- AI-driven energy management
- Dynamic pricing strategies
- VPP-integrated value maximization

Manufacturing Capabilities

Powered by advanced process technology and intelligent automation.

By integrating state-of-the-art machinery with smart digital workflows, we achieve exceptional precision, high efficiency, and scalable capacity. From rapid execution to high-volume delivery, we ensure consistent, world-class quality for global clients.



Reliable Quality



Higher Efficiency



Consistent Stability

9.2 GW/Year

Inverter Capacity

6 GWh/Year

Battery Capacity

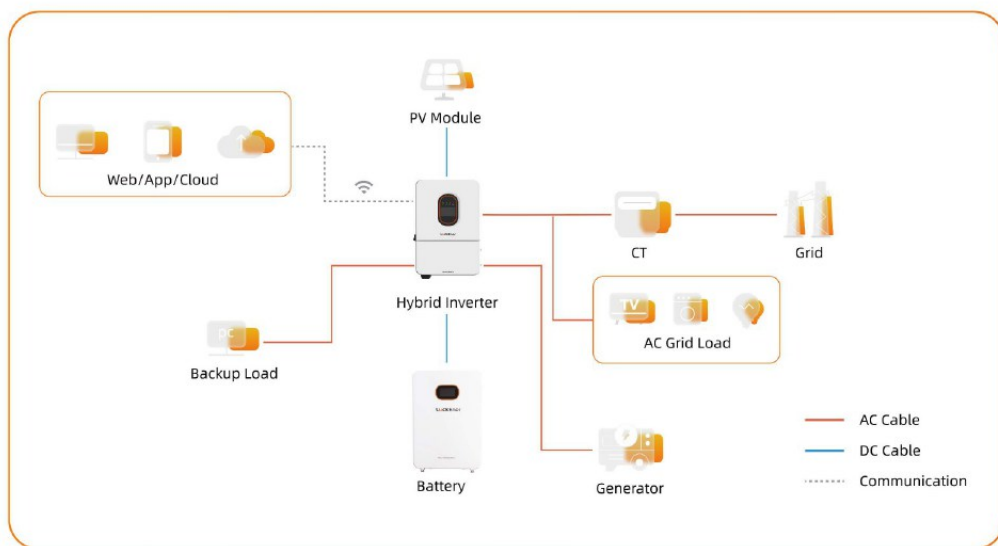
02 SOLUTIONS

- Residential ESS Solutions
- Residential PV Solutions
- C&I Solutions
- Monitoring & APP





Residential ESS Solutions



Our Features



Multiple working modes



Ultra-high overload capacity



UPS-level on/off-grid switching



Reliable off-grid output



Compatible with all PV modules



Long-life & safe batteries

Single-phase Hybrid Inverter (Low Voltage)



4.3" color touch screen for easy control



200% DC/AC ratio to maximize solar yields



Max. 160A charge/discharge current



Optional AFCI function for active fire protection



Max. 6 units parallel operation in off-grid mode



Integrated Type II SPD on both DC & AC sides

Models	El.H003KL -A1.11-P10V-L	El.H3.6KL -A1.22-P10V-L	El.H004KL -A1.22-P10V-L	El.H005KL -A1.22-P10V-L	El.H006KL -A1.22-P10V-L	El.H7.5KL -A1.22-P10V-L	El.H008KL -B1.22-P10V-L
PV input data							
Recommend max. PV capacity (Wp)	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
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	160
Max. discharging current (A)	70	90	100	120	140	150	160
AC output/input data (grid side)							
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)						
AC output (backup)							
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						
Generator data							
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						
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 Type II/DC Typell						
General							
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				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 years; (More info refers to the warranty policy)						
Display	LCD+LED						
Grid regulation	IEC61727,IEC62116,MEA,PEA,EN50549,(Additional certifications in progress. See website for updates.)						
Safety EMC/Standard	IEC EN 61000-6-1/2/3/4; IEC62920; IEC62109-1/2						

Hybrid Inverter

3-7kW

Ei.H003KL-007KL-B

Single-phase Hybrid Inverter (Low Voltage)



Our Features



2 MPPTs with 20A input, fits high-power modules



200% overload (10s) to easily start inductive loads



Support excess power export to the grid



Wide input voltage range for longer running hours



Up to 140A high charge/discharge current



Max. 6 units parallel operation in off-grid mode

Models	Ei.H003KL ~81.11-PINV-L	Ei.H3.6KL ~81.22-PINV-L	Ei.H004KL ~81.22-PINV-L	Ei.H005KL ~81.22-PINV-L	Ei.H006KL ~81.22-PINV-L	Ei.H007KL ~81.22-PINV-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				1(0.8leading-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 Type II/DC TypeII		
General						
Dimensions (W*H*D mm)				389*460*155		
Weight (kg)				16		
Noise (dB)				<45		
Operating temperature (°C)				-25~60 (>45°C 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		
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		

Hybrid Inverter

8-12kW

Ei.H008KL-012KL-A

Single-phase Hybrid Inverter (Low Voltage)



Our Features



4.3" color touch screen for easy control



200% overload (10s) to easily start inductive loads



Max. 240A charge/discharge current



Max. 3 MPPTs with 40A input, fits high-power PV modules



<10ms switching time for seamless UPS backup



Max. 6 units parallel operation in off-grid mode

Models	Ei.H008KL-A1.23-P1NV-L	Ei.H010KL-A1.23-P1NV-L	Ei.H012KL-A1.34-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)		65-550	
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		1 (0.8leading~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%	
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 Type II/DC Typell	
General			
Dimensions (W*H*D mm)		426*630*241	
Weight (kg)		31	
Noise (dB)		<45	
Operating temperature (°C)		-25~60 (>45°C 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,IEC61683,MEA,PEA,EN50549,(Additional certifications in progress. See website for updates.)		
Safety EMC/Standard	IEC EN 61000-6-1/2/3/4; IEC62920; IEC62109-1/2		

Hybrid Inverter

8-12kW

Ei.H008KL-012KL-B

Single-phase Hybrid Inverter (Low Voltage)



Our Features



3 MPPTs with 40A input, fits high-power modules



200% overload (10s) to easily start inductive loads



Support excess power export to the grid



Wide input voltage range for longer running hours



Up to 240A high charge/discharge current



Max. 6 units parallel operation in off-grid mode

Models	Ei.H008KL-C1.23-P1NV-L	Ei.H010KL-B1.23-P1NV-L	Ei.H012KL-B1.34-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)		65-550	
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		1 (0.8leading~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%	
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 Type II/DC Typell	
General			
Dimensions (W*H*D mm)		426*630*241	
Weight (kg)		31	
Noise (dB)		<45	
Operating temperature (°C)		-25~60 (>45°C 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	

Hybrid Inverter

3-26kW

Ei.H003KL-026KL

Three-phase Hybrid Inverter (Low Voltage)



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 max. charge/discharge current



Max. 5 units parallel operation in off-grid mode

Models	Ei.H003KL	Ei.H004KL	Ei.H005KL	Ei.H006KL	Ei.H008KL	Ei.H010KL	Ei.H012KL	Ei.H015KL	Ei.H016KL	Ei.H018KL	Ei.H020KL	Ei.H025KL	Ei.H026KL
	4.11-4.34kW	4.11-4.34kW	4.11-4.34kW	4.11-4.34kW	4.11-4.34kW	4.11-4.34kW	4.11-4.34kW	4.11-4.34kW	4.11-4.34kW	4.11-4.34kW	4.11-4.34kW	4.11-4.34kW	4.11-4.34kW
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							1(0.8leading-0.8lagging)						
AC output (backup)													
Rated output power (W)	4,500	6,000	7,500	9,000	12,000	15,000	15,000	15,000	15,000		20,000		
Peak power (VA _s)	6,000, 10	8,000, 10	10,000, 10	12,000, 10	16,000, 10	20,000, 10	24,000, 10	30,000, 10	30,000, 10		40,000, 10		
Rated output current (A)	6.8	9.1	11.4	13.6	18.2	22.7	22.7	22.7	22.7		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)	4,500	6,000	7,500	9,000	12,000	15,000	15,000	15,000	16,000	18,000	20,000	25,000	26,000
Max. apparent input power (VA)	4,950	6,600	8,250	9,900	13,200	16,500	16,500	16,500	17,600	19,800	22,000	27,500	28,600
Max. input current (A)	7.5	10.0	12.5	15.0	20.0	25.0	25.0	25.0	26.7	30.0	33.3	41.7	43.3
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 Type II/DC TypeII						
General													
Dimensions (W*H*D mm)							490*738*245						
Weight (kg)							48						
Noise (dB)							<60						
Operating temperature (°C)							-25~60 (>45°C 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						

Off-grid Inverter

Ei.F003KL-007KL

Single-phase Off-grid Inverter (Low Voltage)

3-7kW



Our Features



2 MPPTs with 20A input, fits high-power modules



200% overload (10s) to easily start inductive loads



<10ms switching time for seamless UPS backup



Wide input voltage range for longer running hours



Up to 140A high charge/discharge current



Max. 6 units parallel operation in off-grid mode

Models	Ei.F003KL ~A1.11~P10W-L	Ei.F3.6KL ~A1.22~P10W-L	Ei.F004KL ~A1.22~P10W-L	Ei.F005KL ~A1.22~P10W-L	Ei.F006KL ~A1.22~P10W-L	Ei.F007KL ~A1.22~P10W-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				1(0.8leading~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 Type II/DC TypeII		
General						
Dimensions (W*H*D mm)				389*460*155		
Weight (kg)				16		
Noise (dB)				<45		
Operating temperature (°C)				-25~60 (>45°C 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		

Off-grid Inverter

Ei.F008KL-012KL

Single-phase Off-grid Inverter (Low Voltage)

8-12kW



Our Features



3 MPPTs with 40A input, fits high-power modules



200% overload (10s) to easily start inductive loads



<10ms switching time for seamless UPS backup



Wide input voltage range for longer running hours



Up to 240A high charge/discharge current



Max. 6 units parallel operation in off-grid mode

Models	Ei.F008KL -AL23-PINV-L	Ei.F010KL -AL23-PINV-L	Ei.F012KL -AL23-PINV-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)		500	
Rated voltage (V)		370	
Start voltage (V)		100	
MPPT voltage range (V)		100-450	
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)			
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		1 (0.8leading~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)	8800	11000	13200
Max. input current (A)	40.0	50.0	60.0
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 Type II/DC TypeII	
General			
Dimensions (W*H*D mm)		513*519*164	
Weight (kg)		21	
Noise (dB)		<45	
Operating temperature (°C)		-25~60 (>45°C 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	

Bt-5-LW

Low Voltage Battery

5kWh



Our Features



Safe & Reliable

Lithium iron phosphate (LFP) chemistry ensures high safety, long cycle life, and stable performance



Easy Installation

Compact design with simplified wiring enables quick and hassle-free installation



Expandable Capacity

Max. 16 units parallel operation to meet different energy demands



Outdoor-Ready Protection

IP65-rated enclosure provides reliable protection for safe and stable outdoor operation

Model	Bt-5-LW-A1	Bt-5-LW-B1
Nominal voltage	51.2V	
Nominal energy	5.12kWh	
Nominal capacity	100Ah	
IP rating	IP41	IP65
Output power	5.12kW	
Voltage range	43.2-58.4V	
Charge voltage	55.2-58.4V	
Charge current	100A	
Discharge current	100A	
Charge mode	CC-CV	
Scalability	Max. 16 Units in Parallel	
Communication	CAN/RS485/RS232/ Dry Contact	
Charge temperature	0-55°C	
Discharge temperature	-20-60°C	
Cycle life	>6000(@25°C,80% DOD)	
Weight	46kg	
Dimension	580*400*145mm	
Safety & Certification	UN38.3/MSDS/CE	

Bt-5-LS

Low Voltage Battery 5-30kWh



Our Features



Safe & Reliable

Lithium iron phosphate (LFP) chemistry ensures high safety, long cycle life, and stable performance



Easy Installation

Compact design with simplified wiring enables quick and hassle-free installation



Expandable Capacity

Modular design supports flexible capacity expansion to meet different energy demands



Indoor-Ready Protection

IP41-rated enclosure provides reliable protection for safe and stable indoor operation

Model	Bt-5-LS-A1
Nominal voltage	51.2V
Nominal energy	5.12kWh
Nominal capacity	100Ah
IP rating	IP41
Output power	5.12kW
Voltage range	43.2-58.4V
Charge voltage	55.2-58.4V
Charge current	100A
Discharge current	100A
Charge mode	CC-CV
Scalability	Max. 16 Units in Parallel (Max. 6 Units each pallet)
Communication	CAN/RS485/RS232/ Dry Contact
Charge temperature	0-55°C
Discharge temperature	-20-60°C
Cycle life	>6000(@25°C,80% DOD)
Weight	45 kg
Dimension	531*421*155mm
Safety & Certification	UN38.3/MSDS/CE

Bt-10-LW

Low Voltage Battery **10kWh**



Our Features

Safe & Reliable
Lithium iron phosphate (LFP) chemistry ensures high safety, long cycle life, and stable performance

Easy Installation
Compact design with simplified wiring enables quick and hassle-free installation

Expandable Capacity
Max. 16 units parallel operation to meet different energy demands

Outdoor-Ready Protection
IP65-rated enclosure provides reliable protection for safe and stable outdoor operation

Model	Bt-10-LW-A1	Bt-10-LW-B1
Nominal voltage	51.2V	
Nominal energy	10.54kWh	
Nominal capacity	206Ah	
IP rating	IP41	IP65
Output power	8.19kW	
Voltage range	43.2-58.4V	
Charge voltage	55.2-58.4V	
Charge current	120A	
Discharge current	160A	
Charge mode	CC-CV	
Scalability	Max. 16 Units in Parallel	
Communication	CAN/RS485/RS232/ Dry Contact	
Charge temperature	0-55°C	
Discharge temperature	-20-60°C	
Cycle life	>6000(@25°C,80% DOD)	
Weight	82kg	
Dimension	750*485*194mm	
Safety & Certification	UN38.3/MSDS/CE	

Bt-16-LW

Low Voltage Battery

16kWh



Our Features



Safe & Reliable

Lithium iron phosphate (LFP) chemistry ensures high safety, long cycle life, and stable performance



Easy Installation

Compact design with simplified wiring enables quick and hassle-free installation



Expandable Capacity

Max. 16 units parallel operation to meet different energy demands

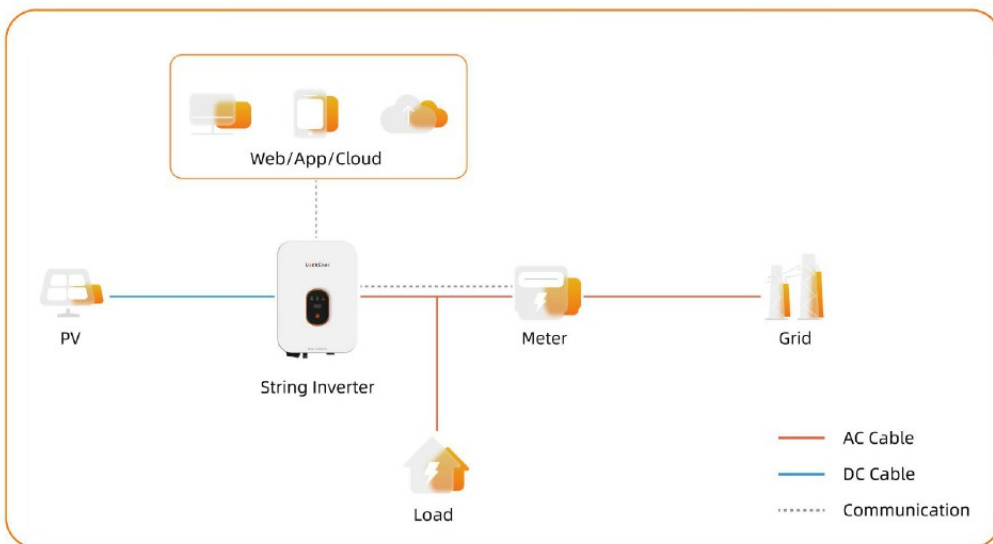
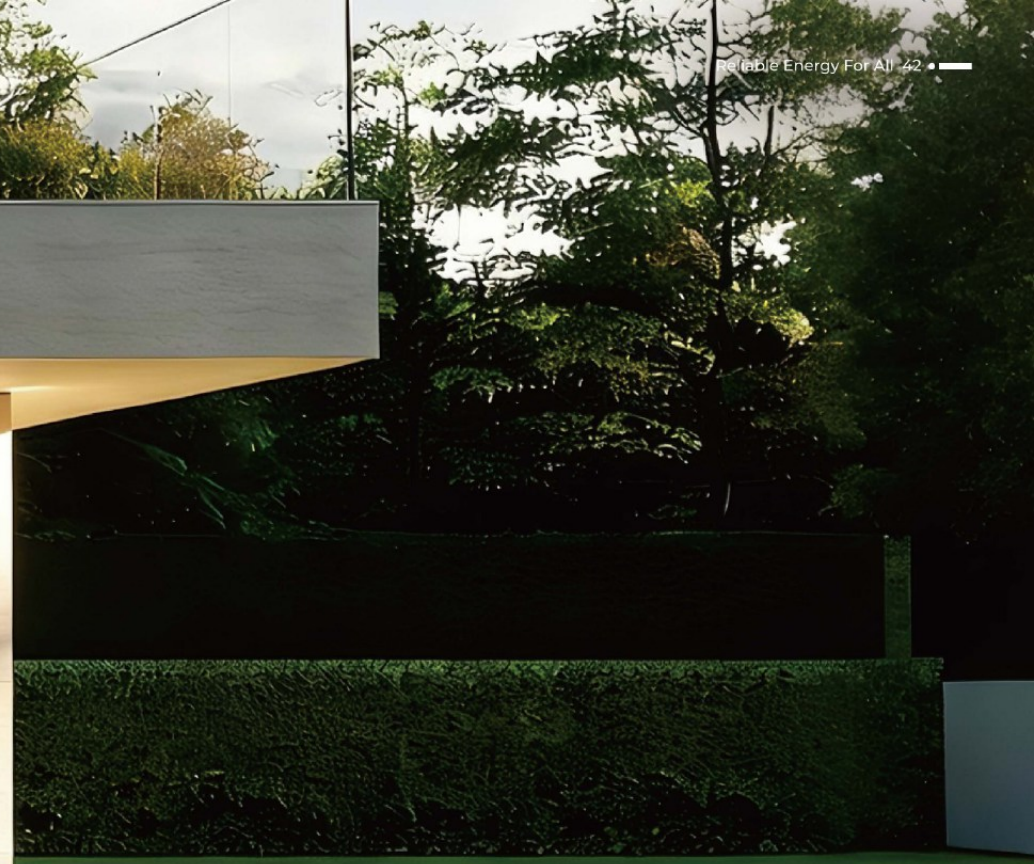


Outdoor-Ready Protection

IP65-rated enclosure provides reliable protection for safe and stable outdoor operation

Model	Bt-16-LW-A1	Bt-16-LW-B1
Nominal voltage	51.2V	
Nominal energy	16.08kWh	
Nominal capacity	314Ah	
IP rating	IP41	IP65
Output power	10.24kW	
Voltage range	43.2-58.4V	
Charge voltage	55.2-58.4V	
Charge current	200A	
Discharge current	200A	
Charge mode	CC-CV	
Scalability	Max. 16 Units in Parallel	
Communication	CAN/RS485/RS232/ Dry Contact	
Charge temperature	0-55°C	
Discharge temperature	-20-60°C	
Cycle life	>6000(@25°C,80% DOD)	
Weight	116kg	
Dimension	835*450*230mm	
Safety & Certification	UN38.3/MSDS/CE	

Residential PV Solutions



Our Features



Built-in Type II surge protector



110% continuous overload output capability



Ultra-wide input voltage range



Max.150% DC/AC ratio



Compatible with the latest high-power modules



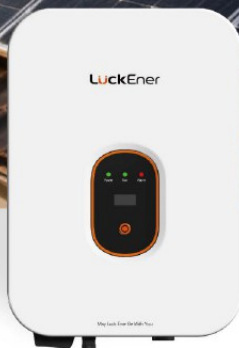
Weak grid adaptable

On-grid Inverter

Gi001K-006K

1-6kW

Single-phase On-grid Inverter



Our Features



Compact and lightweight design (<6 kg)



150% DC/AC ratio to optimize solar harvest



Max. 20A input current, fits high-power modules



110% continuous overload to boost power generation



Integrated export power control for zero-feed regulations



Optional AFCI function for active fire protection

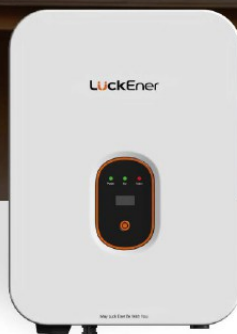
Models	Gi001K-B1.11-P1NV-L	Gi002K-B1.11-P1NV-L	Gi003K-B1.11-P1NV-L	Gi004K-B1.11-P1NV-L	Gi005K-B1.11-P1NV-L	Gi006K-B1.11-P1NV-L
PV input data						
Recommend max. PV input power (Wp)	1500	3000	4500	6000	7500	9000
Max. PV input voltage (V)				550		
Rated voltage (V)				360		
Start voltage (V)				50		
MPPT voltage range (V)				40-550		
Max. PV input current (A)				20		
Max. short-circuit current per MPPT (A)				30		
MPPT number				1		
No. of PV strings per MPPT				1		
AC output data						
Rated output power (W)	1000	2000	3000	4000	5000	6000
Max. output power (VA)	1100	2200	3300	4400	5500	6600
Max. output current (A)	5.0	10.0	15.0	20.0	25.0	30.0
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)		
Efficiency						
Max. efficiency				97.50%		
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		
Insulation resistance monitoring				Yes		
Residual current detection				Yes		
Arc fault circuit interrupter				Optional		
Surge protection				AC Type II/DC TypeII		
General						
Dimensions (W*H*D mm)				279*381*113		
Weight (kg)				6		
Noise (dB)				<45		
Operating temperature (°C)				-25~60(>45°Cderating)		
Type of cooling				Smart air cooling		
Topology				Transformerless		
Communication				RS485		
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		

On-grid Inverter

4-10kW

Gi004K-010K

Single-phase On-grid Inverter



Our Features



150% DC/AC ratio to optimize solar harvest



Max. 3 MPPTs for ultimate flexibility on complex roofs



Max. 20A input current, fits high-power modules



110% continuous overload to boost power generation



Ultra-wide MPPT range with low 40V startup voltage



Optional AFCI function for enhanced system safety

Models	Gi004K -A1.22-P100-L	Gi005K -A1.22-P100-L	Gi006K -A1.22-P100-L	Gi007K -A1.22-P100-L	Gi7.5K -A1.22-P100-L	Gi008K -A1.22-P100-L	Gi007K -A1.33-P100-L	Gi7.5K -A1.33-P100-L	Gi008K -A1.33-P100-L	Gi009K -A1.33-P100-L	Gi010K -A1.33-P100-L
PV input data											
Recommend max. PV input power (Wp)	6000	7500	9000	10500	11250	12000	10500	11250	12000	13500	15000
Max. PV input voltage (V)						550					
Rated voltage (V)						360					
Start voltage (V)						50					
MPPT voltage range (V)						40-550					
Max. PV input current (A)				20/20				20/20/20			
Max. short-circuit current per MPPT (A)				30/30				30/30/30			
MPPT number				2				3			
No. of PV strings per MPPT				1				1			
AC output data											
Rated output power (W)	4000	5000	6000	7000	7500	8000	7000	7500	8000	9000	10000
Max output power (VA)	4400	5500	6600	7700	7500	8800	7700	8250	8800	9900	11000
Max output current (A)	20.0	25.0	30.0	35.0	34.1	40.0	35.0	37.5	40.0	45.0	50.0
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)					
Efficiency											
Max. efficiency						97.50%					
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					
Insulation resistance monitoring						Yes					
Residual current detection						Yes					
Arc fault circuit interrupter						Optional					
Surge protection						AC Type II/DC Typell					
General											
Dimensions (W*H*D mm)						354*454*113.5					
Weight (kg)						8.5					
Noise (dB)						<45					
Operating temperature (°C)						-25~60(>45°C derating)					
Type of cooling						Smart air cooling					
Topology						Transformerless					
Communication						RS485					
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;Brazil515(Additional certifications in progress. See website for updates.)					
Safety EMC/Standard						IEC EN 61000-6-1/2/3/4; IEC62920; IEC62109-1/2					

On-grid Inverter

3-17kW

Gi003K-017K

Three-phase On-grid Inverter



Our Features



150% DC/AC ratio to optimize solar harvest



Max. 2 MPPTs design with up to 98.5% high efficiency



140V startup voltage for longer daily running hours



110% continuous overload to boost power generation

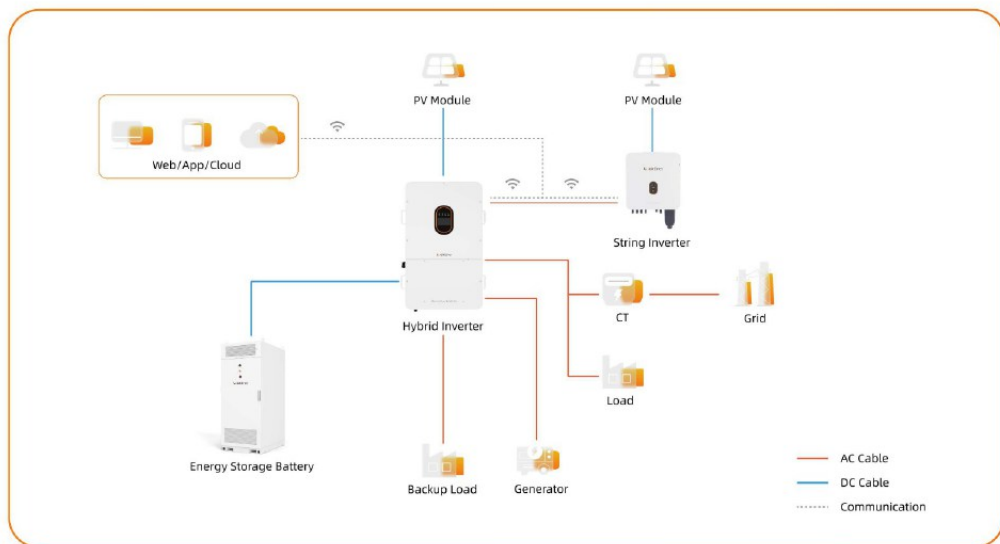


Advanced adaptability for weak grid conditions



Integrated export power control for zero-feed regulations

Models	Gi003K -A1.11-P000-L	Gi004K -A1.11-P000-L	Gi005K -A1.11-P000-L	Gi006K -A1.11-P000-L	Gi007K -A1.11-P000-L	Gi008K -A1.11-P000-L	Gi009K -A1.11-P000-L	Gi010K -A1.11-P000-L	Gi012K -A1.11-P000-L	Gi015K -A1.11-P000-L	Gi017K -A1.11-P000-L
PV input data											
Recommend max. PV input power (Wp)	4500	6000	7500	9000	10500	12000	13500	15000	18000	22500	25500
Max. PV input voltage (V)						1100					
Rated voltage (V)						600					
Start voltage (V)						160					
MPPT voltage range (V)						120-1000					
Max. PV input current (A)			20					20/20			
Max. short-circuit current per MPPT (A)			30					30/30			
MPPT number			1					2			
No. of PV strings per MPPT			1					1			
AC output data											
Rated output power (W)	3000	4000	5000	6000	7000	8000	9000	10000	12000	15000	17000
Max output power (VA)	3300	4400	5500	6600	7700	8800	9900	11000	13200	16500	18700
Max output current (A)	5.0	6.7	8.3	10	11.7	13.3	15.0	16.7	20.0	25.0	28.3
Operation phase						3L+N+PE					
Rated output voltage (V)						220/380; 230/400					
Rated frequency (Hz)						50/60					
THDi						<3%					
Power factor						1(0.8leading-0.8lagging)					
Efficiency											
Max. efficiency						98.50%					
EU efficiency						98.20%					
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 Type II/DC TypeII					
General											
Dimensions (W*H*D mm)						459*459*153.5					
Weight (kg)						14					
Noise (dB)						<45					
Operating temperature (°C)						-25~60(>45°Cderating)					
Type of cooling						Smart air cooling					
Topology						Transformerless					
Communication						RS485					
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,EN50549,(Additional certifications in progress. See website for updates.)					
Safety EMC/Standard						IEC EN 61000-6-1/2/3/4; IEC62920; IEC62109-1/2					



Our Features



Multiple working modes



Smart energy management



Ultra-high PV input capacity



Compatible with large-cell battery systems



UPS-level on/off-grid switching



Modular design for easy integration

On-grid Inverter 20-26kW

Gi020K-026K

Three-phase On-grid String Inverter



Our Features



150% DC/AC ratio to optimize solar harvest



2 MPPTs with 4 PV inputs for maximum energy yield



110% continuous overload to boost power generation



Integrated export power control for zero-feed regulations



Optional AFCI function for enhanced system safety



Integrated Type II SPD on both DC & AC sides

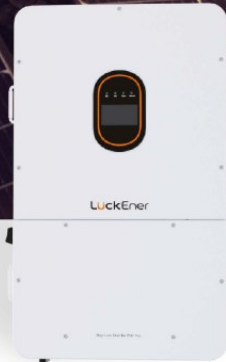
Models	Gi020K -A124-P30V-L	Gi023K -A124-P30V-L	Gi025K -A124-P30V-L	Gi026K -A124-P30V-L
PV input data				
Recommend max. PV capacity (Wp)	30,000	34,500	37,500	39,000
Max. PV input power (W)		1100		
Rated voltage (V)		600		
Start voltage (V)		140		
MPPT voltage range (V)		120~1000		
Max. PV input current (A)		40/40		
Max. short-circuit current per MPPT (A)		50/50		
MPPT number		2		
No. of PV strings per MPPT		2+2		
AC output data				
Rated output power (W)	20,000	23,000	25,000	26,000
Max output power (VA)	22,000	25,300	27,500	28,600
Rated output current (A)	30.3	34.8	37.9	39.4
Max output current (A)	33.3	38.3	41.7	43.3
Operation phase		3L+N+PE		
Rated output voltage (V)		220/380; 230/400		
Rated frequency (Hz)		50/60		
THDi		< 3%		
Power factor		1(0.8leading~0.8lagging)		
Efficiency				
Max. efficiency		98.50%		
EU efficiency		98.20%		
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 Type II/DC Type II		
General				
Dimensions (W*H*D mm)		485*510*155		
Weight (kg)		20		
Noise (dB)		<45		
Operating temperature (°C)		-25~60 (>45°C derating)		
Type of cooling		Smart air cooling		
Topology		Transformerless		
Communication		RS485		
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 61000-6-1/2/3/4; IEC62920; IEC62109-1/2		

Hybrid Inverter

Ei.H020K-065K

20-65kW

Three-phase Hybrid Inverter (High Voltage)



Our Features



5 MPPTs with 40A per channel, fits high-power modules



2x rated AC power input for full charging & loading



Optional smart PID recovery & AFCI protection



Dual independent battery input ports (80A each)



GEN port supports generator, smart load, and AC couple



Max. 5 units parallel operation in off-grid mode

Models	Ei.H020KH -A1.3A-P30V-L	Ei.H025KH -A1.3A-P30V-L	Ei.H29.9KH -A1.3A-P30V-L	Ei.H030KH -A1.3A-P30V-L	Ei.H035KH -A1.3A-P30V-L	Ei.H040KH -A1.3A-P30V-L	Ei.H49.9KH -A1.3A-P30V-L	Ei.H050KH -A1.3A-P30V-L	Ei.H055KH -A1.3A-P30V-L	Ei.H060KH -A1.3A-P30V-L	Ei.H065KH -A1.3A-P30V-L
PV input data											
Recommend max. PV capacity (Wp)	40,000	50,000	60,000	60,000	70,000	80,000	100,000	100,000	110,000	120,000	130,000
Max. PV input power (W)	32,000	40,000	47,840	48,000	56,000	64,000	79,840	80,000	88,000	96,000	104,000
Max. PV input voltage (V)							1000				
Rated voltage (V)							630				
Start voltage (V)							160				
MPPT voltage range (V)							150-1000				
Max. PV input current (A)	40/20/20			40/40/20/20			40/40/40/40		40/40/40/40		
Max. short-circuit current per MPPT (A)	50/30/30			50/50/30/30			50/50/50/50		50/50/50/50		
MPPT number	3			4			4	4	5	5	5
No. of PV strings per MPPT	2+1+1			2+2+1+1			2+2+2+2		2+2+2+2+2		
Battery input data											
Battery type							Li-Ion				
Max. charging current (A)							135-850				
Battery voltage range (V)							80*2				
Max. discharging current (A)							80*2				
AC output/input data(grid side)											
Rated output power (W)	20,000	25,000	29,900	30,000	35,000	40,000	49,900	50,000	55,000	60,000	65,000
Max output power (VA)	22,000	27,500	32,890	33,000	38,500	44,000	54,890	55,000	60,500	66,000	71,500
Rated output current (A)	30.3/28.9	37.9/36.3	45.4/43.4	45.6/43.5	53.1/50.8	60.7/58	75.7/72.4	75.8/72.5	83.4/79.8	90.9/86.9	98.5/94.2
Max output current (A)	33.3	41.7	49.8	50.0	58.3	66.7	83.2	83.3	91.7	100.0	108.3
Max. input power (W)	40,000	50,000	59,800	60,000	70,000	80,000	130,000	130,000	130,000	130,000	130,000
Max. input current (A)	60.6	75.8	90.6	90.9	106.1	121.2	197.0	197.0	197.0	197.0	197.0
Operation phase							3L+N+PE				
Rated output voltage (V)							220/380V; 230/400V				
Rated frequency (Hz)							50/60				
THDi							<3%				
Power factor							1(0.8leading-0.8lagging)				
AC output (backup)											
Rated output power (W)	30,000	37,500	45,000	45,000	52,500	60,000	65,000	65,000	65,000	65,000	65,000
Peak power (VA,s)						1.5times, 10s					
Rated output current (A)	45.5	56.8	68.2	68.2	79.5	90.9	98.5	98.5	98.5	98.5	98.5
Rated output voltage (V)							220/380V; 230/400V				
Rated frequency (Hz)							50/60				
Switch time (ms)							<10				
Generator data											
Rated input power (W)	20,000	25,000	29,900	30,000	35,000	40,000	49,900	50,000	55,000	60,000	65,000
Max. apparent input power (VA)	45,000	56,250	67,500	67,500	78,750	90,000	97,500	97,500	97,500	97,500	97,500
Max. input current (A)	68.2	85.2	102.3	102.3	119.3	136.4	147.7	147.7	147.7	147.7	147.7
Rated input voltage (V)							220/380V; 230/400V				
Rated frequency (Hz)							50/60				
Efficiency											
Safety EMC/Standard							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 Typell/DC Typell				
General											
Dimensions (W*H*D mm)							560*990*320				
Weight (kg)							85				
Noise (dB)							<65				
Operating temperature (°C)							-25~60 (>45°C 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 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				

Monitoring & APP

Smart Energy Management Platform



System Features

Supreme Experience

- Rapid site setup and device binding
- Regionalized operations
- Tiered management

Safe and Efficient

- Intelligent fault alerts
- Online IV curve diagnostics
- Multi-dimensional real-time

Multi-scenario Adaptation

- Remote device control and parameter configuration
- Support local Bluetooth and Wi-Fi connection

Our Features



Plug-and-play

No complex wiring
Quick and easy installation



Multiple communication options

Flexible adaptation to different network
& applications



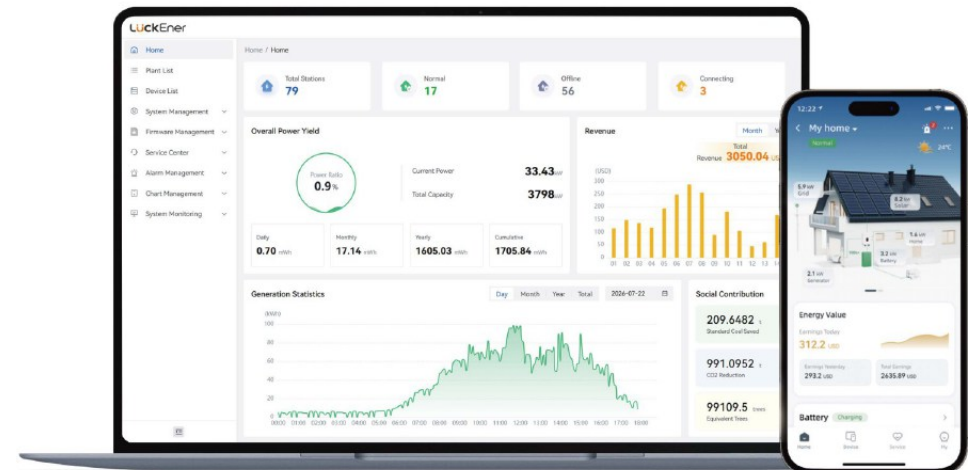
Stable and reliable communication

Continuous data transmission
Stable system monitoring



Remote monitoring

Real-time data upload
Remote O&M management



AFTER-SALES SERVICE

Warranty Policy



5 Years Standard



Up to 10 Years
Extendable

Long-term Service Strategy



Local Based Service

Warehouse • Service Partner • Engineer



HQ Oriented Support

R&D & Expert Backup



Service response

7*24H

Response



< 48 Hours

Solution Provide



< 72 Hours

Issue Closure

USER CASES

Residential Solar Energy Storage System



Bangkok, Thailand

» EI.H012KL-A1.34-P1NV-L » 13 kWp + 32 kWh



Imus City, Philippines

» EI.H010KL-A1.23-P1NV-L » 11 kWp + 16 kWh



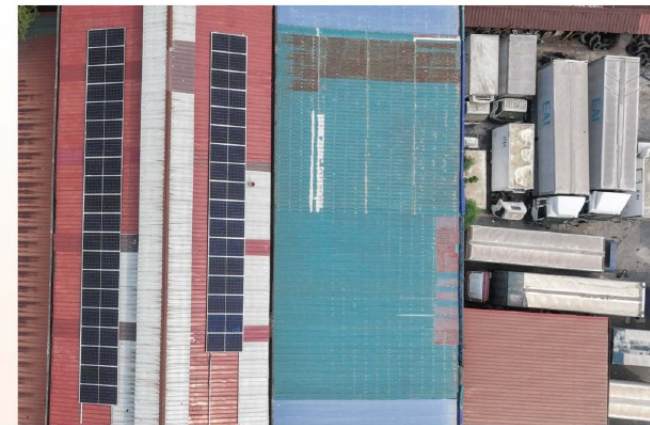
Manila City, Philippines

» EI.H012KL-A1.34-P1NV-L » 10 kWp + 16 kWh



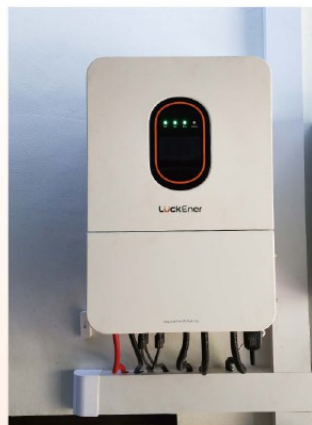
Hanoi, Vietnam

» EI.H012KL-A1.34-P1NV-L*2 » 23 kWp + 32 kWh



Lahore, Pakistan

» EI.H008KL-A1.23-P1NV-L » 9 kWp + 12 kWh



Manila City, Philippines

» EI.H012KL-A1.34-P1NV-L » 12 kWp + 32 kWh



Islamabad, Pakistan

» EI.H012KL-A1.34-P1NV-L » 10.5 kWp + 16 kWh



Quezon City, Philippines

» EI.H012KL-A1.34-P1NV-L » 10.7kWp + 16 kWh