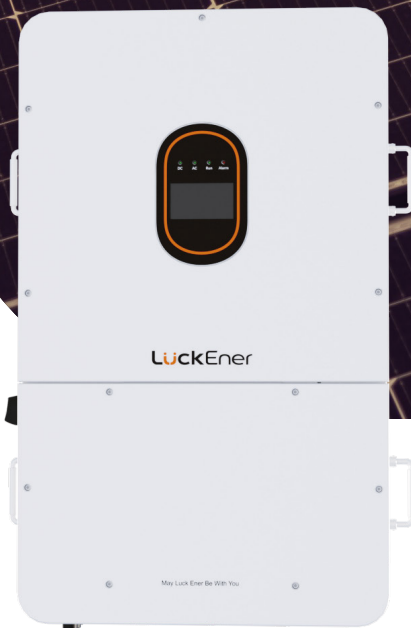


Hybrid Inverter

20-65kW

Ei.H020KH-065KH

Three-phase Hybrid Inverter (High voltage)



* Product appearance may vary



Flexible Design



Safe & Stable



User-friendly

- Colorful touch screen and intelligent APP for friendly and easy operation
- Up to 5 MPPTs with 40A input per channel, compatible with the latest high-power PV modules
- 200% of recommended PV oversizing to achieve higher PV energy harvest
- 160A charge/discharge current, enabling faster charging and strong discharge capability
- Dual independent battery input ports (80A each), compatible with different battery connection schemes
- 2× rated AC power input, supporting full power for both battery charging and load consumption

- GEN port with multiple connections, supporting diesel generator, smart load and AC couple connections
- Switching time <10 ms, providing seamless transition between on-grid and off-grid modes
- Support for optional smart PID recovery and AFCI protection
- IP66 protection rating, ensuring dependable operation in harsh environmental conditions
- Max. 3 units in parallel operation in off-grid mode, enabling scalable and reliable energy systems

Models	Ei.H020KH -A1.34-P3NV-L	Ei.H025KH -A1.34-P3NV-L	Ei.H29.9KH -A1.34-P3NV-L	Ei.H030KH -A1.46-P3NV-L	Ei.H035KH -A1.46-P3NV-L	Ei.H040KH -A1.48-P3NV-L	Ei.H49.9KH -A1.48-P3NV-L	Ei.H050KH -A1.510-P3NV-L	Ei.H055KH -A1.510-P3NV-L	Ei.H060KH -A1.510-P3NV-L	Ei.H065KH -A1.510-P3NV-L	
PV input data												
Recommend max. PV capacity (W)	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					
Max. short-circuit current per MPPT (A)	50/30/30			50/50/30/30			50/50/50/50					
MPPT number	3			4			4		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											
Battery voltage range (V)	135-850											
Max. charging current (A)	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	Transformless											
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 61000-6-3; IEC62920; IEC62109-1/2											