LuckEner

Hybrid Inverter 30-70kW

Ei.H030K-070K

Three-phase Hybrid Inverter (High Voltage)



* Product appearance may vary

Our Features

- 5 MPPTs with 40A per channel, fits high-power modules
- Dual independent battery input ports (80A each)
- 2× rated AC power input for full charging & loading
- GEN port supports generator, smart load, and AC couple
- Optional smart PID recovery & AFCI protection
- Parallel operation in off-grid mode

Models	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	Ei.H070KH -A1.510-P3NV-L
PV input data									
Recommend max. PV capacity (Wp)	60,000	70,000	80,000	100,000	100,000	110,000	120,000	130,000	140,000
Max. PV input power (W)	48,000	56,000	64,000	79,840	80,000	88,000	96,000	104,000	105,000
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)	40/40/20/20		40/40/40/40		40/40/40/40/40				
Max. short-circuit current per MPPT (A)	50/50/30/30		50/50/50/50		50/50/50/50/50				
MPPT number	4				5				
No. of PV strings per MPPT	2+2+1+1		2+2+2+2		2+2+2+2+2				
Battery input data									
Battery type	Li-ion								
Battery voltage range (V)	135-950								
Max. charging current (A)	80*2								
Max. discharging current (A)	80*2								
AC output/input data(grid side)									
Rated output power (W)	30,000	35,000	40,000	49,900	50,000	55,000	60,000	65,000	70,000
Max output power (VA)	33,000	38,500	44,000	54,890	55,000	60,500	66,000	71,500	77,000
Rated output current (A)	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	101.4/106.1
Max output current (A)	50.0	58.3	66.7	83.2	83.3	91.7	100.0	108.3	116.7
Max. input power (W)	60,000	70,000	80,000	130,000	130,000	130,000	130,000	130,000	130,000
Max. input current (A)	90.9	106.1	121.2	151.2	151.5	166.7	181.8	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	>0.99 (0.8 leading~0.8lagging)								
AC output (backup)									
Rated output power (W)	30,000	35,000	40,000	49,900	50,000	55,000	60,000	65,000	70,000
Peak power (VA,s)	1.5times, 10s								
Rated output current (A)	45.5	53.0	60.6	75.6	75.8	83.3	90.9	98.5	106.06
Rated output voltage (V)	220/380V,230/400V								
Rated frequency (Hz)	50/60								
Switch time (ms)	<10								
Generator data									
Rated input power (W)	30,000	35,000	40,000	49,900	50,000	55,000	60,000	65,000	70,000
Max. apparent input power (VA)	45,000	52,500	60,000	74,850	75,000	82,500	90,000	97,500	105,000
Max. input current (A)	68.2	79.5	90.9	113.4	113.6	125.0	136.4	147.7	159.1
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 TypeII/DC TypeII								
General									
Dimensions (W*H*D mm)	560*990*320								
Weight (kg)	97								
Noise (dB)	<65								
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								

V 202610-1

www.luckener.com Email: sales@lt-ess.com All Rights Reserved @Jiangsu LT Technology Co., Ltd.
All products, services, and technical data described are subject to change without notice. Please refer to the latest version for any updates.