Hisense | 科林电气 KE ELECTRIC

100-208kWh

All-in-One PV & Storage Cabinet for C&I Applications



Deeply integrates inverter, PV charger and battery storage unit to simplify site installation and lower overall project cost. It covers wide-ranging use-cases including self-consumption, peak-shaving, backup power and demand management, delivering uninterrupted power supply and intelligent energy dispatch across all scenarios.

HIGH EFFICIENCY & COST OPTIMIZATION

- Shadow-tracking MPPT algorithm for higher generation efficiency under complex lighting conditions;
- Supports 2x PV oversizing to maximize renewable energy utilization;
- Dual independent battery ports with 80A charge-discharge per port, enabling flexible configuration and hassle-free capacity expansion.

RELIABLE PERFORMANCE & COMPREHENSIVE SAFETY

- Inverter IP66, complete cabinet IP55; operating range: -25°C~60°C, stable & reliable under harsh conditions;
- 160% for 2s /150% for 10s to ensure heavy-duty loads start without tripping;
- Multiple safety protections ensure trouble-free operation.

FLEXIBLE COMPATIBILITY FOR FULL-SCENE APPLICATION

- Intelligent three-in-one interface, compatible with PV, wind, and diesel generator inputs, flexible multi-energy dispatch;
- Three-phase unbalanced independent loading, max 33% unbalanced power per phase, adapting to various complex loads;
- Smooth capacity expansion ranging from 100kWh to 2MWh.

SMART GRID-FORMING & MILLISECOND-LEVEL RESPONSE

- Supports microgrid GOOSE fast regulation, adapting to grid-connected, off-grid, and microgrid, VPP operation modes;
- Seamless grid-tie/off-grid transfer ⩽10ms to maintain power for critical loads;
- Built-in EMS enables intelligent logics such as demand control and anti-reverse power. Seamless interoperability with microgrid controllers and upper-level energy management systems;
- 7×24 cloud collaboration, remote monitoring, operation, and system upgrades, reducing O&M costs.

Product Parameters

PRODUCT MODEL	–	KE-5130-100AC3H	KE-5150-100AC2H	KE-5150-208AC4H
BASIC PARAMETERS	Nominal Output Power	30 kW	50 kW	50 kW
	Nominal Energy Capacity	100 kWh	100 kWh	208.8 kWh
	Max. System Efficiency	⩾89%	⩾89%	⩾89%
	Max. Charge/Discharge Rate	0.33P	0.5P	0.25P
	Depth of Charge/Discharge	0~100%	0~100%	0~100%
	Dimensions (W×H×D)	1050x1850x1300mm	1050x1850x1300mm	1300x1785x1380mm
	Dimensions without Inverter (W×H×D)	750x1850x1300mm	750x1850x1300mm	1000x1785x1380mm
	Total Weight	1500kg(Cabinet)+80kg(Inverter)	1500kg(Cabinet)+80kg(Inverter)	2300kg(Cabinet)+80kg(Inverter)
	Operating Temperature Range	-25~60°C (Derated Above 45°C)		
	Storage Temperature Range	0~+40°C		
	Operating Humidity	0~95%		
	Protection Rating	IP55 (Cabinet)+IP66 (Inverter)		
	Corrosion Protection Rating	C4, C5 Optional		
	Thermal Management Type	Smart Air Cooling	Smart Air Cooling	Smart Liquid Cooling Smart Air Cooling (Inverter)
	Max. Operating Altitude	⩽4000m; Derated 3000~4000m		
	Noise Level	70dB(A)@1m		
	Fire Suppression Type	Standard: Aerosol, Fire Water Inlet, Audible/Visual Alarm Optional: Combustible Gas Detection, Explosion-Proof Exhaust Fan		
	Control Method	Bluetooth+APP+Cloud Platform		
	Display Interface	LED		
	Communication Interface	4G, CAN, RS485Ethernet, Bluetooth, WiFi		
BATTERY PARAMETERS	Cell Type	$LiFePO_4$/314Ah		
	Battery Module Nominal Energy	20.1kWh	20.1kWh	52.2kWh
	Battery Module Configuration	1P100S	1P100S	1P208S
	Number of Battery Packs	5	5	4
	Nominal Voltage	320Vdc	320Vdc	666Vdc
	Max. Voltage Range	270~360V	270~360V	562~749V
	Max. Charge/Discharge Power	33 kW	55 kW	55 kW
	Max. Charge/Discharge Current	160 A		
	Life Cycle	8000 Cycles (25±2°C, 0.5P, 70% EOL)		
PV RELATED PARAMETERS	Inverter Model	KE-5124-30K	KE-5124-50K	KE-5124-50K
	Max. PV Input Power	60 kW	100kW	100 kW
	Max. PV Voltage	1000V		
	PV Nominal Voltage	600V		
	PV Startup Voltage	180V		
	MPPT Voltage Range	150 ~ 850 V		
	Number of MPPT	3	4	4
	Number of Strings	6	8	8
	Max. Input Current	40A × 3	40A × 4	40A × 4
	Max. PV Short-Circuit Current	60A × 3	60A × 4	60A × 4
GRID RELATED PARAMETERS	Nominal Voltage	3/(N)/PE AC220/380V 3/(N)/PE AC230/400V 3/(N)/PE AC240/415V		
	Nominal Frequency	50/60 Hz		
	Nominal Output Power	30 kW	50 kW	50 kW
	Max. Apparent Power (Grid-Tied)	30kVA	50kVA	50kVA
	Nominal Output Current	45.6/43.3 A	76.0/72.2 A	76.0/72.2 A
	Max. Bypass Current	91.2/86.6 A	152/144.4 A	152/144.4 A
	Power Factor	>0.99 (0.8 Leading ~ 0.8 Lagging)		
	Max.THDi	<3%(rated output power @on-grid)		
	Grid/Off-Grid Switching Time	< 10 ms		
	Max. Overload Capacity	1.6Pn@ 2s 1.5Pn@10s		
	Max. Unbalanced Power per Phase	33% Nominal Power		
	Max.THDu	<3%(linear load @off-grid)		
CERTIFICATIONS		IEC/EN 62109, IEC61000, IEC62619, IEC63056, UN38.3		

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