

5kW Hybrid Inverter / Single-phase

Suitable for intelligent switching on/off of small and medium-sized household systems



Easy Installation



Ultra-silent



IP65 protection



► Integrated design for PV and energy storage

Integrate PV and energy storage, supporting various kinds of batteries.

► Smart switching

UPS function, on/off grid switch within 10ms.

► Wide voltage input range

Wide PV voltage input range 120V-500V, wide batteries voltage range 85V-450V;

► Safe and reliable

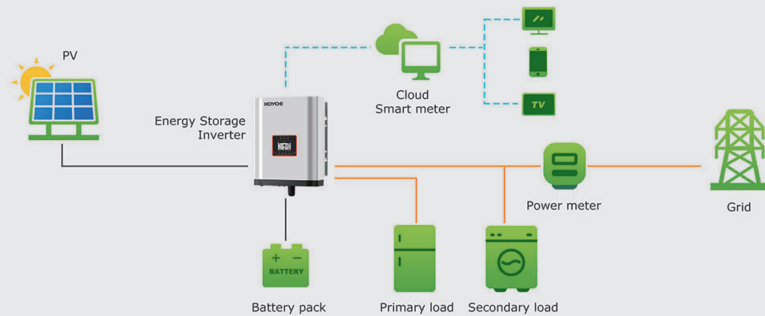
IP65 protection, high Electricity quality, no interference with other equipment.

► Smart and simple

Small size, light and easy to install, ultra-silent, flexible communications.

► High-efficiency

Max Efficiency 97.8%, Smart MPPT, tracing efficiency up to 99.99%.



Model	Y-1Hybrid-5K0-H	
Efficiency	Max. Efficiency	>98.2%
	Max. PV input power(W)	7000
PV Input	Max. PV input voltage(V)	550
	MPPT Operation Voltage Range(V)	120-500
	Number of MPPT/PV Strings	2/1
	Max. PV input current(A)	12/12
	Short-circuit current of PV input(A)	15/15
Battery	Max Input/Output Voltage(V)	450
	Operating Voltage Range(V)	85-450
	Max Charge/Discharge Current(A)	25/25
	Max Input/Output Power(W)	5000/5000
	Battery Type	Li-ion/Lead-acid
AC Input and Output	Rated Power(W)	5000
	Max. Apparent AC Power(VA)	5000
	Nominal AC Voltage(Vac)	230,1φ(L/N/PE)
	AC Power Frequency(Hz)	50/60
	Max. AC Output Current(A)	21.7
	Power Factor Range	~1 (Adjustable from 0.8 leading to 0.8 lagging)
	OutputTHDi(@Nominal Output)	<3%
	Rated Output Power(W)	5000
	Max. Apparent AC Output Power(VA)	5000
	Nominal AC Output Voltage(Vac)	230,1φ(L/N/PE)(N not connect to PE inside)
Off-Grid AC Output (Back-up AC Output)	AC Power Frequency(Hz)	50/60
	Max. AC Output Current(A)	21.7
	Operating Temperature Range	-25°C ...+60°C(>45°C derating)
	Operating Altitude(m)	<4000
General Data	Noise(dB)	<40
	Topology	Transformerless
	Cooling Method	Natural convection
	Ingress Protection Rating	IP65
	Relative Humidity	0-100%, no condensation
	DC Connection Type	MC/Amphenol/Phoenix
	AC Connection Type	Plug-in Connector
	Display	LCD
	Communication With Portal	RS485 (WiFi/GPRS Optional)
	Communication With BMS	CAN
	Communication With Meter	RS485
	Mounting Method	Wall-mounting bracket
	Dimensions (W*D*H)(mm)	390*500*185
	Weight(Kg)	18
	Certification	Safety
EMC		EN61000-6-1/-2/-3,IEC61000
On-Grid standard		AS4777.2,NRS097-2-1:2017