

5KW Single-Phase Hybrid Inverter		
Model	KY-1Hybrid-5K0-H	
Efficiency	Max.Efficiency	>98.2%
PV Input	Max. PV input power(W)	7000
	Max. PV input voltage(V)	550
	MPP Operation Voltage Range(V)	120-500
	Max. number of PV strings per MPPT	1/1
	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%
Off-Grid AC Output(Back-up AC Output)	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)
	AC Power Frequency(Hz)	50/60
	Max. AC Output Current(A)	21.7
General Data	Operating Temperature Range	-25°C ... +60°C(> 45°C derating)
	Operating Altitude(m)	<4000
	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 Optinal)
	Communication With BMS	CAN
	Communication With Meter	RS485
	Mounting Method	Wall-mounting bracket
	Dimensions (W*H*D)(mm)	390*500*185
Weight(Kg)	18	
Certification	Safety	IEC62109-1/-2
	EMC	EN61000-6-1/-2/-3,IEC61000
	On-Grid standard	AS4777.2,NRS097-2-1:2017