

5kW Energy Storage System (Stack)

Model	KYS5kw-10kwh-S	
Efficiency	MPPT.Efficiency	99.90%
	Max.Efficiency	>97.80%
	Battery.Efficiency	>98.10%
Battery Pack	Model	KY-48V105AH
	Serial Number	2
	Cell Type	Li-ion(LFP)
	Battery Capacity(Ah)	105
	Storage Capacity(KWh)	10
	Available Capacity(KWh)	9.2
	Cycle Life	7000
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	2/1
	Max. PV input current(A)	12/12
	Short-circuit current of PV input(A)	15/15
Battery Port	Operating Voltage Range(V)	85-450
	Nominal Voltage(V)	96
	Max Charge/Discharge Current(A)	25/25
	Communication With BMS	CAN
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
	Ingress Protection Rating	IP65
	Relative Humidity	5-85%, no condensation
	Display	LCD
	Communication With Portal	RS485 (WiFi/GPRS Optional)
	Communication With Meter	RS485
	Weight (kg)	130
	Dimensions (W*D*H)(mm)	390*380*1300
Certification	Safety	IEC62109-1/-2
	EMC	EN61000-6-1/-2/-3,IEC61000
	On-Grid standard	