

5kW Energy Storage System (outdoor)			
Model		KYS5KW-10KWh	KYS5KW-20KWh
Efficiency	MPPT.Efficiency	99.90%	
	Max.Efficiency	>97.80%	
	Battery.Efficiency	>98.10%	
Battery Pack	Model	KY-48V105AH	
	Serial Number	2	4
	Cell Type	Li-ion(LFP)	
	Battery Capacity(Ah)	105	
	Rated Capacity(KWh)	10	20
	Usable Capacity(KWh)	9.2	17.9
	Cycle Life	4000, 90%DOD@25°C	
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 Port	Operating Voltage Range(V)	85-450	
	Nominal Voltage(V)	96	192
	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)	<3000	
	Noise(dB)	<40	
	Topology	Transformerless	
	Cooling Method	Intelligent Fan	
	Ingress Protection Rating	IP54	
	Relative Humidity	0-95%, no condensation	
	Display	LCD	
	Communication With Portal	RS485 (WiFi/GPRS Optional)	
	Communication With Meter	RS485	
	Dimensions (W*H*D)(mm)	686*500*1280	686*500*1955
Certification	Safety	IEC62109-1/-2	
	EMC	EN61000-6-1/-2/-3,IEC61000	
	On-Grid standard	AS4777.2,NRS097-2-1:2017	
	Transportation	UN38.3	