

5kW Home Energy Storage Solutions (Outdoor)

Battery capacity 10-20kWh, switch to off-grid mode without interruption, stable operation.



Modular design



Plug-in installation



Thunder protection



► Modular design

Strong expansibility, plug-in installation, integrated EMS smart energy management system;

► Smart switch

Off-grid operation, supporting emergency power supply, and seamless switching;

► Wide voltage input range

Ultra-wide PV voltage range 120V-500V, battery Ultra-wide voltage range 85V-450V;

► Safe and reliable

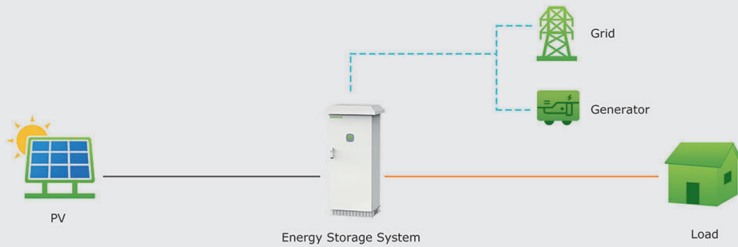
Intelligent air cooling, low temperature rise, long life time, built-in anti-lightning protection, high precision leakage protection;

► Smart and simple

Easy installation, supporting countercurrent function, supporting real-time remote monitoring and data checking;

► High power efficiency

Less output power reduction under high temperature, with efficiency improved; max PV input power up to 1.3 X rated power.



Model		YS5kw-10kwh-O	YS5kw-20kwh-O
Efficiency	MPPT.Efficiency	99.90%	99.90%
	Max.Efficiency	>97.80%	>97.80%
	Battery.Efficiency	>98.10%	>98.10%
Battery Pack	Model	KY-48V105AH	KY-48V105AH
	Serial Number	2	4
	Cell Type	Li-Ion(LFP)	Li-Ion(LFP)
	Battery Capacity(Ah)	105	105
	Rated Capacity(KWh)	10	20
	Usable Capacity(KWh)	9	18
PV Input	Max. PV input power(W)	7000	7000
	Max. PV input voltage(V)	550	550
	MPPT Operation Voltage Range(V)	120-500	120-500
	Number of MPPT/PV Strings	2/1	2/1
	Max. PV input current(A)	12/12	12/12
	Short-circuit current of PV input(A)	15/15	15/15
Battery Port	Operating Voltage Range(V)	85-450	85-450
	Nominal Voltage(V)	96	192
	Max Charge/Discharge Current(A)	25/25	25/25
	Communication With BMS	CAN	CAN
AC Input and Output	Rated Power(W)	5000	5000
	Max. Apparent AC Power(VA)	5000	5000
	Nominal AC Voltage(Vac)	230,1φ(L/N/PE)	230,1φ(L/N/PE)
	AC Power Frequency(Hz)	50/60	50/60
	Max. AC Output Current(A)	21.7	21.7
	Power Factor Range	~1 (Adjustable from 0.8 leading to 0.8 lagging)	~1 (Adjustable from 0.8 leading to 0.8 lagging)
	Output THDi(@Nominal Output)	<3%	<3%
Off-Grid AC Output (Back-up AC Output)	Rated Output Power(W)	5000	5000
	Max. Apparent AC Output Power(VA)	5000	5000
	Nominal AC Output Voltage(Vac)	230,1φ(L/N/PE)(N not connect to PE inside)	230,1φ(L/N/PE)(N not connect to PE inside)
	AC Power Frequency(Hz)	50/60	50/60
General Data	Max. AC Output Current(A)	21.7	21.7
	Operating Temperature Range	-25℃ ...+60℃(>45℃ derating)	-25℃ ...+60℃(>45℃ derating)
	Operating Altitude(m)	<3000	<3000
	Noise(dB)	<40	<40
	Topology	Transformerless	Transformerless
	Cooling Method	Intelligent Fan	Intelligent Fan
	Ingress Protection Rating	IP54	IP54
	Relative Humidity	0-95%, no condensation	0-95%, no condensation
	Display	LCD	LCD
	Communication With Portal	RS485 (WiFi/GPRS Optional)	RS485 (WiFi/GPRS Optional)
	Communication With Meter	RS485	RS485
Dimensions (W*D*H)(mm)	682*586*1340	682*586*1900	
Certification	Safety	IEC62109-1/-2	IEC62109-1/-2
	EMC	EN61000-6-1/-2/-3,IEC61000	EN61000-6-1/-2/-3,IEC61000
	On-Grid standard	AS4777.2,NRS097-2-1:2017	AS4777.2,NRS097-2-1:2017
	Transportation	UN38.3	UN38.3