

## 5kW Home Energy Storage Solutions (Indoor)

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



### ► Modular design

Modular design, plug-in installation, simple appearance design, integration of modern home;

### ► 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

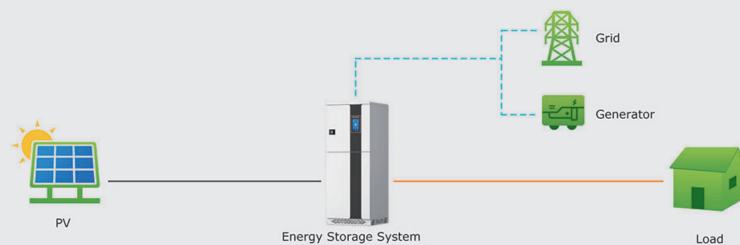
Smart air cooling, low temperature rise, long life time, multiple protection functions;

### ► Smart and simple

Supporting GPRS / WIFI / RS485 / USB, LCD design, supporting remote monitoring;

### ► 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-I	YS5kw-20kwh-I	
Efficiency	MPPT.Efficiency	99.90%	99.90%	
	Max.Efficiency	>97.80%	>97.80%	
	Battery.Efficiency	>98.10%	>98.10%	
Battery Pack	Model	KY-51V105AH	KY-51V105AH	
	Serial Number	2	4	
	Cell Type	Li-ion(LFP)	Li-ion(LFP)	
	Battery Capacity(Ah)	105	105	
	Storage Capacity(KWh)	10	20	
	Available Capacity(KWh)	9	18	
PV Input	Cycle Life	7000	7000	
	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	
Battery Port	Short-circuit current of PV input(A)	15/15	15/15	
	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	
	Rated Power(W)	5000	5000	
AC Input and Output	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)	
	OutputTHDi(@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	
	Max. AC Output Current(A)	21.7	21.7	
	Operating Temperature Range	-25°C ... +60°C(>45°C derating)	-25°C ... +60°C(>45°C derating)	
General Data	Operating Altitude(m)	<4000	<4000	
	Noise(dB)	<40	<40	
	Topology	Transformerless	Transformerless	
	Cooling Method	Intelligent Fan	Intelligent Fan	
	Ingress Protection Rating	IP21	IP21	
	Relative Humidity	5-85%, no condensation	5-85%, 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)	600*600*933	600*600*1203	
	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	