

50kW HYBRID INVERTER / 72 / 86 / 100kWh BATTERY

Air Cooling Commercial & Industrial Energy Storage System

Flexible

Highly integrated
All pre-assembled
Extendable

Reliable

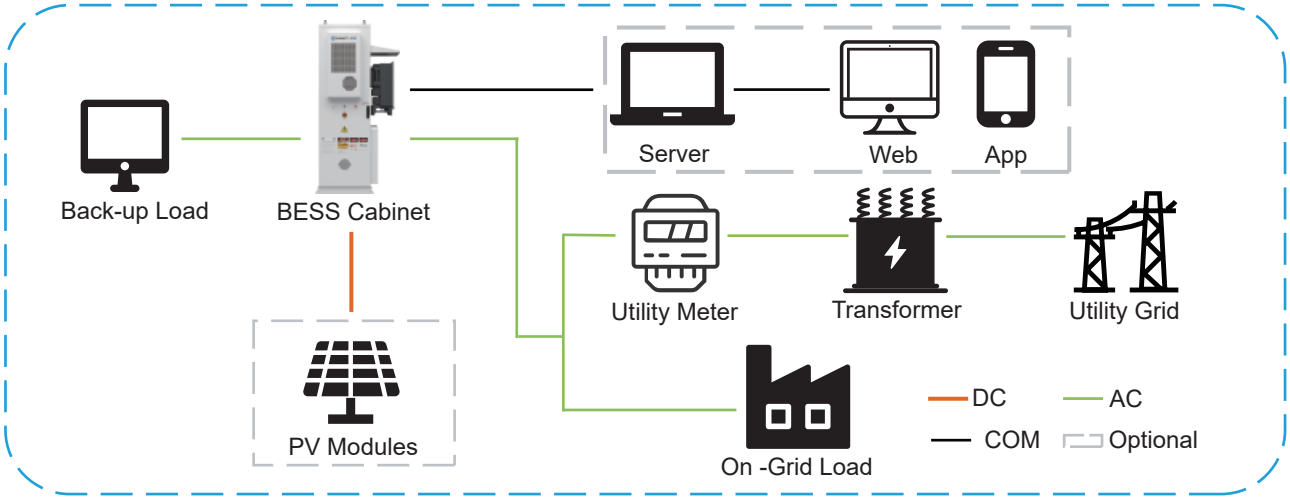
DC electric circuit safety protection
Multi level battery protection
Fire suppression system

Efficient

Intelligent cooling system
＜10ms Switching Off / On-grid

Smart

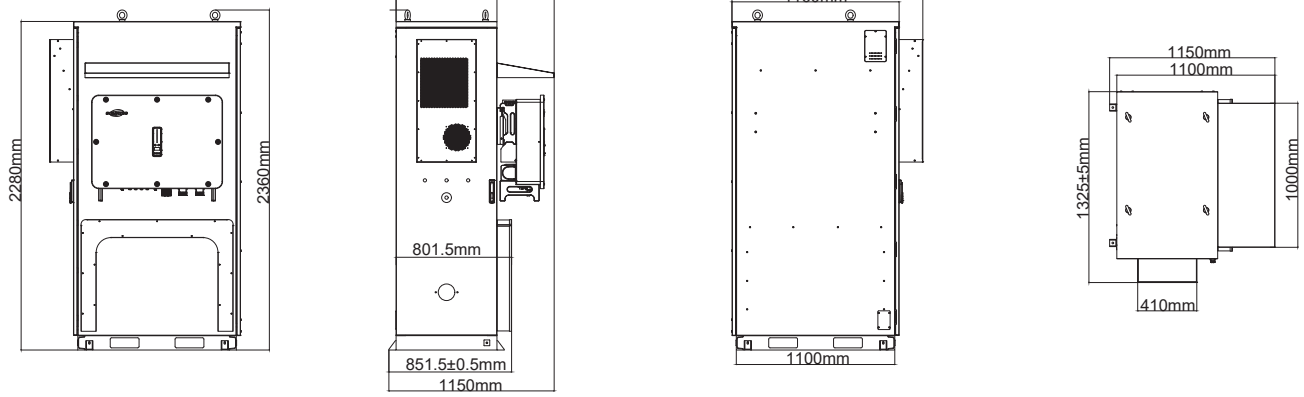
Intelligent cloud platform management, real-time monitoring of operational status



SUNKET-ESS

SUNKET-ESS 50kW HYBRID INVERTER / 72 / 86 / 100kWh BATTERY

Air Cooling Commercial & Industrial Energy Storage System



	Model	SKTESS72-50K	SKTESS86-50K	SKTESS100-50K
Battery	Battery Type	LiFePO4		
	Nominal Capacity	280Ah		
	Battery Configuration	1P80S	1P96S	1P112S
	Nominal Energy	71.68kWh	86.016kWh	100.352kWh
	Nominal Voltage	256V	307.2V	358.4V
	Operating Voltage Range	224~288V	268.8~345.6V	313.6~403.2V
	Max.Continuous Charge / Discharge Current	140A		
	Max. Charge-discharge Efficiency	95%(@25°C~30°C，0.5P)		
	Charge / Discharge Rate	0.5P		
	Cycle Life	≥ 6000 （@25°C ± 2°C , 0.5P / 0.5P, 70% EOL ）		
PV	Max.DC Input Voltage	1000V		
	MPPT Voltage Range	200~950V		
	DC Inputs	2 / 2 / 2 / 2		
	Max.Input Current	40A*4		
Back-up	Rated Output Power	50kW		
	On / Off-grid Switching Time	＜10ms		
	Peak Output Apparent Power	1.5 Times Of Rated Output Power, 10s		
System	Max. AC Output Power	55kW		
	Grid Type	3L / N / PE		
	AC Output Frequency	50 / 60HZ		
	AC Output Voltage	400±5%V		
	Voltage Harmonic Distorion	<3% @Linear Load		
	AC Max. Output Current	83A		
	Power Factor	0.8 Leading … 0.8 Lagging		
	Ingress Protection	IP54		
	Protective Class	Class I		
	Anti-Corrosion Grade	C4		
	Max. System Efficiency	88%		
	Operating Environment Temperature	-20°C ~50°C		
	Relative Humidity	5~95 % (non-condensing)		
	Max. Working Altitude	3000(＞2000m derating)		
	Communication	CAN / RS485 / WiFi / LAN (Optional)		
	Cooling	Air Cooling		
	Dimension	1150 × (1325±5) × 2280 mm		
	Net Weight	≤1140kg	≤1240kg	≤1340kg
	Certification	UN38.3， IEC62619、IEC63056、EN IEC 61000、EN 62477		
	Max. Parallel	5		

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Specifications are subject to change without further notification

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