

Outdoor Cabinet Energy Storage System

All-in-one ESS SmartBase 50K/100K



All-in-one system with modular design



System protection



Real-time cloud platform data monitoring



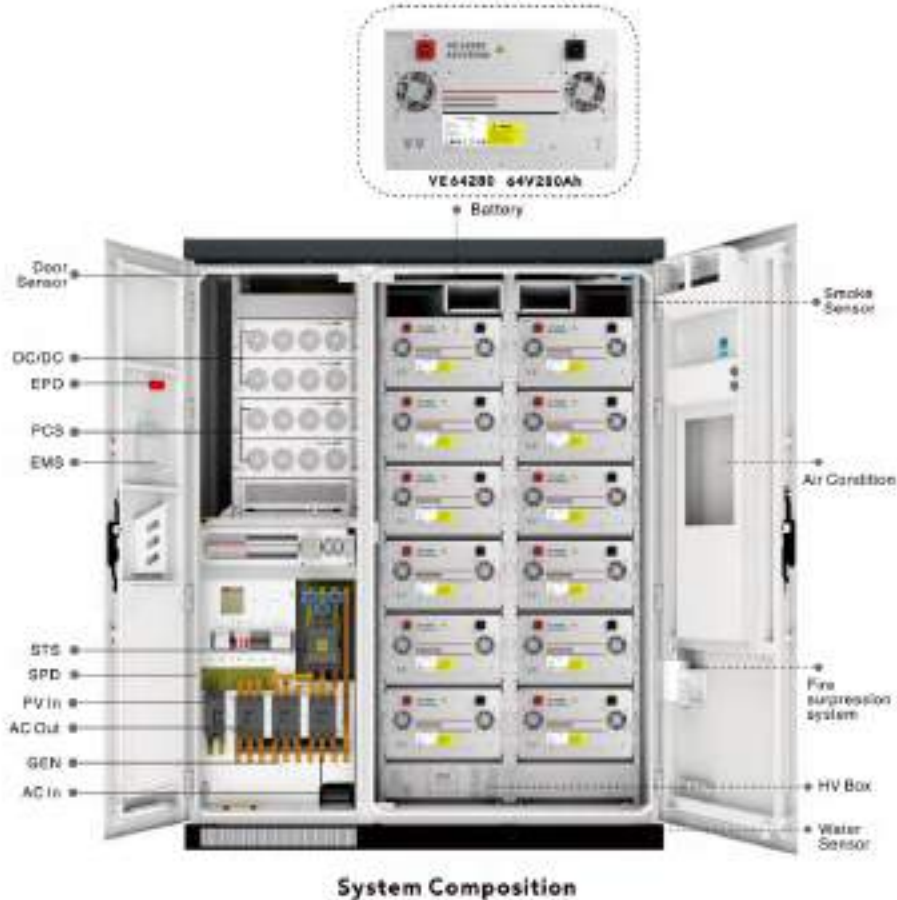
Less on-grid & off-grid switching time



Full system diagnosis

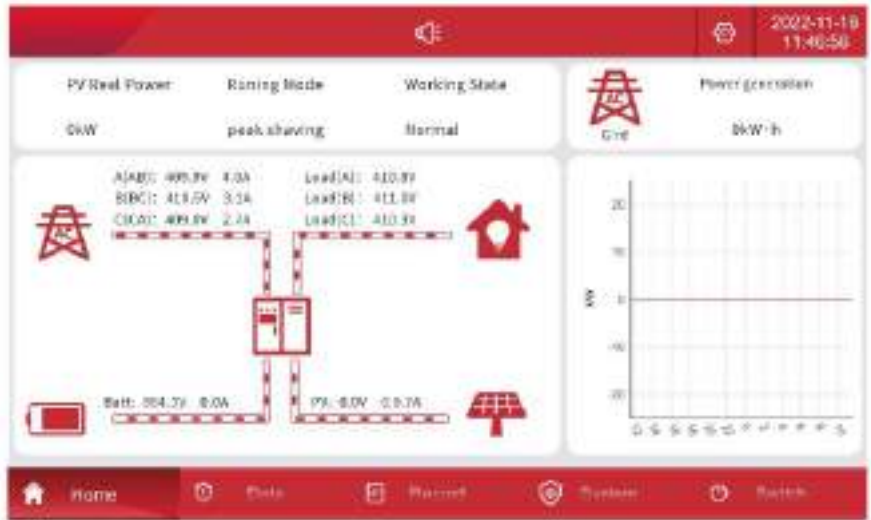
Environmental control system

The energy storage system is equipped with environmental control units such as smoke detectors, waterimmersion sensors, door magnetic sensors and fire protection, which can fully control the operatingstatus of the system. Schematic diagram of environmental control system:



Human-machine interface introduction

The home page interface displays system real-time power, voltage, current, power generation, operating mode, working status and other information.



Specification

Model	SmartBase-50(DC50) (100kWh)	SmartBase-100 (DC100) (200kWh)	SmartBase-100 (DC100) (215kWh)
Battery rated capacity	100kWh	200kWh	215kWh
Battery rated voltage	844.8V	716.8V	768V
Battery voltage range	739.2V~950.4V	627.2V~806.4V	672V~864V
Battery type	Lithium iron phosphate battery (LFP)	Lithium iron phosphate battery (LFP)	Lithium iron phosphate battery (LFP)
Cell capacity	120Ah	280Ah (CATL)	280Ah
Battery pack series and parallel connection	1P*24S*11S	1P*14S*16S	1P*20S*12S
Maximum charge and discharge current	60A	140A	140A
PV rated capacity	50kW	100kW	100kW
PV voltage range	200~700V	200~600V	200~650V
Rated AC power	50kW	100kW	100kW
Rated AC current	72A	144A	144A
Rated AC voltage	400V, 3W+N+PE/3W+PE	400V, 3W+N+PE/3W+PE	400V, 3W+N+PE/3W+PE
Rated AC frequency	50/60Hz	50/60Hz	50/60Hz
Current total harmonic distortion rate (THDI)	< 3%(rated power)	< 3%(rated power)	< 3%(rated power)
Power Factor	-1 lead ~ +1 lag	-1 lead ~ +1 lag	-1 lead ~ +1 lag
Voltage total harmonic distortion rate (THDU)	< 3% (linear load)	< 3% (linear load)	< 3% (linear load)
Protection level	IP54	IP54	IP54
Protection level	I	I	I
Isolation mode	Not isolated (optional)	Not isolated (optional)	Not isolated (optional)

	transformer)	transformer)	transformer)
Power consumption during shutdown	< 100W (Transformer not included)	< 100W (Transformer not included)	< 100W (Transformer not included)
Display	Touch LCD screen	Touch LCD screen	Touch LCD screen
Relative humidity	0~95%(without condensation)	0~95% (without condensation)	0~95%(without condensation)
Noise	< 75dB	< 75dB	< 75dB
environment temperature	-25℃~60℃ (Derating above 45℃)	-25℃~60℃ (Derating above 45℃)	-25℃~60℃ (Derating above 45℃)
Cooling method	Intelligent air cooling	Intelligent air cooling	Intelligent air cooling
Altitude	3000m (Derating above 2000m)	3000m (Derating above 2000m)	3000m (Derating above 2000m)
BMS Communication	CAN	CAN	CAN
EMS Communication	Ethernet / 485	Ethernet / 485	Ethernet / 485
Dimension (W*D*H)	1200*1000*2150mm 1850*1000*2300mm	1850*1000*2300mm	1800*1200*2300mm
Weight (approx.)	1650/1850kg	2200kg	2400kg