

EPHS143/197

EP ENERGY

50kW143/197kWh Air Cooling Hybrid Energy Storage Cabinet
Energy Independence For Home And Light Commercial Centers



● Key Features

- Modular design, support up to 6 clusters in parallel
- Pre-installed design for convenient transportation and installation, cost-saving.
- High security, multi-level BMS protection function.
- Local & remote intelligent monitoring, real-time data storage.

DC Side Parameters		
Model	EPHS143	EPHS197
Cell Type	LFP	LFP
Nominal Voltage	512 Vdc	704 Vdc
Operating Voltage Range	420-560 Vdc	650-949 Vdc
Nominal Capacity	280 Ah	280 Ah
Nominal Energy	143 kWh	197 kWh
Charge/Discharge Rate	0.35C	0.25C
System Configuration	1P160S	1P220S

PV Input Parameters	
Max. Power	65 kW
MPPT Voltage Range	150 Vdc~ 850 Vdc
Max. PV Input Current	36+36+36+36
MPPT Trackers	4
No. of Strings Per MPPT Tracker	2+2+2+2

AC Side Parameters	
Rated AC Power	50 kVA
Maximum AC Power	55 kVA
Max. AC Current(A)	83.4A/79.8A
Nominal Grid Voltage	220/380 Vac, 230/400 Vac, 3W+N+PE
Voltage Range	345~435 Vac
Nominal Grid Frequency	50/60 Hz
Total Harmonic Distortion(THDi)	<3%
Adjustable Power Factor	0.8 leading to 0.8 lagging

System Parameters		
Model	EPHS143	EPHS197
Maximum System Efficiency	≥91%&0.25P, ≥89%&0.5P	
Depth of Discharge	0~95%	
SOE Accuracy	<3%	
Cycle Life	>8,000 Cycles & 70% EOL 95% DOD	
Altitude	<2,000m	
Operating Relative Humidity	5~95%RH, No Condensation	
Operating Temperature Range	-20°C~50°C	
Thermal Management Mode	Air Conditioner Cooling And Heating	
Fire Protection System	Aerosol, Perfluoro(optional)	
Ingress Protection	IP55	
Anti-Corrosion Grade	C3	
Noise	<65 dB	
Dimension(W*D*H)	1,200 mm*1,450 mm*2,300 mm	
Weight	2,150kg	2,600kg