







POWERHUB

High Voltage All-In-One Hybrid ESS

Introducing the Powerhub by Sunsynk Mobile.

-  Rated power operation the maximum temperature of the battery is less than 35°C.
-  Suitable for high rate cyclic charging and discharging scenarios.
-  Combustible gas, smoke and temperature detection, system active exhaust, and fire alarm.
-  All in One integrated technology, contain pcs, inverter, Battery (BMS) and EMS; power supply redundancy design, support black start function, Off Grid operation, etc.
-  Lithium Iron Phosphate (LFP) Battery, the battery pack and system adopt an aerosol fire extinguishing solution.
-  Supports battery expansion, with a maximum capacity of 1200kWh.



Model	Powerhub
System Specification	
Nominal Output Power/UPS Power (W)	50000
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
Number of parallel	6
Energy Configuration (kWh)	122.8
Dimension (WxDxH mm)	1764x1050x2250
Weight Appr. (kg)	1980
AC Output Rated Current (A)	75.8
Battery Operating Voltage (V)	500 ~ 700
Max. Charging/Discharging Efficiency	91%
Battery Chemistry	LiFePO ₄
IP Rating of Enclosure	IP55
Installation Style	Floor-Mounted

Inverter Technical Specification	
Max. PV Input Power (W)	65000
Max. PV Input Current (A)	36+36+36+36
Rated PV Input Voltage (Vdc)	600
Start Up DC Voltage (Vdc)	180
MPPT Voltage Range (Vdc)	150-850
Max. PV Short-circuit Current (A)	55+55+55+55
Number of MPPT	4
Peak Power (Off Grid)	1.5 time of rated power, 10s
Power Factor	0.8 leading to 0.8 lagging
THD	<3%
DC Injection Current (mA)	<0.5%In
Display	LCD
Operating Temperature Range (°C)	-40~60(>45°C derating)
Relative Humidity	15% ~ 85% (no condensing)
Dimension (WxDxH mm)	527x294x894
Inverter Communication	CAN, RS485, WIFI, ETH
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150
Max. Efficiency	97.6%
MPPT Efficiency	99.9%
Battery Technical Specification	
Battery Module Nominal Voltage (V)	51.2
Battery Module Energy (kWh)	5.12
BMS Communication	CAN
Battery Module Dimension (WxDxH mm)	440x570x133
Battery Module Weight (kg)	44
Operating Temperature Range	Charge: 0~55°C / Discharge: -20°C~55°C
Cycle Life	≥6000(@25°C±2°C,0.5C/0.5C,70%EOL)
Battery Module Certification	UN38.3, IEC62619, IEC61000