







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, 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	50000W
AC Output Frequency and Voltage	50/60Hz; 220/380, 230/400Vac
Grid Type	3L/N/PE
Energy Configuration	122.8kWh
Module Capacity	100Ah
Dimension (WxDxH)	1780x1056x2235mm (not including inverter)
Weight Appr.	2090kg
AC Output Rated Current	75.8A
Battery Operating Voltage	500 ~ 700V
Max. Charging/Discharging Efficiency	91.0%
Battery Chemistry	LiFePO ₄
IP Rating of Enclosure	IP55
Installation Style	Floor-Mounted
Warranty	10 Years

Inverter Technical Specification	
Max. PV Input Power	65000W
Max. PV Input Current	36+36+36+36A
Rated PV Input Voltage	600Vdc
Start Up DC Voltage	180Vdc
MPPT Voltage Range	150-850Vdc
Max. PV Short-circuit Current	55+55+55+55A
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	<0.5%In mA
Display	LCD
Operating Temperature Range	-40°C ~ 60°C (>45°C derating)
Relative Humidity	15% ~ 85% (no condensing)
Dimension (WxDxH)	527x294x894mm
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	51.2V
Battery Module Energy	5.12kWh
BMS Communication	CAN
Battery Module Dimension (WxDxH)	440x570x133mm
Battery Module Weight	44kg
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