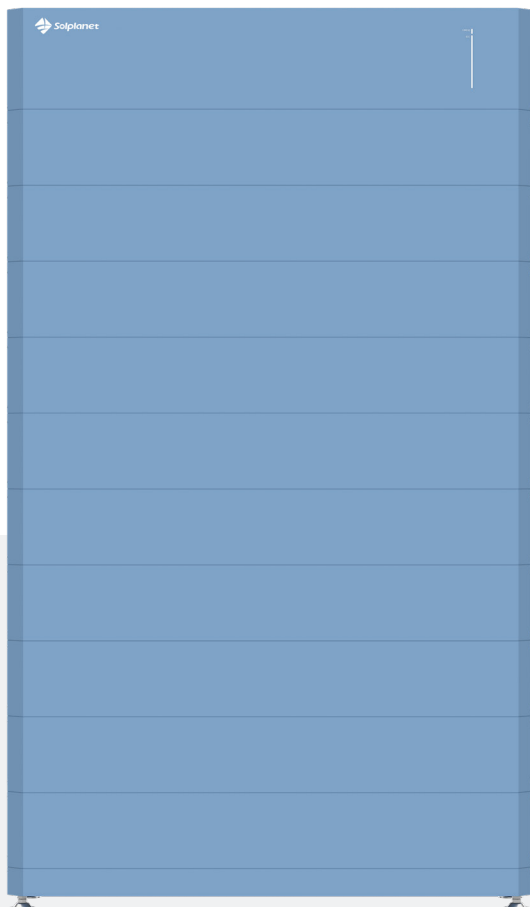


High Voltage Battery 10 to 51 kWh

AP-H Series



Models:

APH5.0-S2	APH5.0-S7
APH5.0-S3	APH5.0-S8
APH5.0-S4	APH5.0-S9
APH5.0-S5	APH5.0-S10
APH5.0-S6	



Easy-to-install

- Stackable up to 51.2 kWh per tower, max. 8 towers in parallel (409.6 kWh)
- Plug-and-play design for simplified installation



Safe & Reliable

- Built-in emergency fire suppression module
- IP65 rated design for indoor and outdoor use
- Built with durable LFP technology and an intelligent battery management system



User-Friendly

- 51 kWh tower at just 1.8 meters in height
- Lightweight modules for easier handling and installation
- Compact design fits for narrow spaces like garages and walkways
- 5 selections for operating (LED) indicator via Solplanet's App

Technical Datasheet

Technical Datasheet		APH5.0-S2	APH5.0-S3	APH5.0-S4	APH5.0-S5	APH5.0-S6	APH5.0-S7	APH5.0-S8	APH5.0-S9	APH5.0-S10
System Data	Battery designation									
	Battery module	APH 5.0								
	Module quantity	2	3	4	5	6	7	8	9	10
	Cell type	LiFePO4								
	Rated capacity	100 Ah								
	Nominal energy ¹	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh	35.84 kWh	40.96 kWh	46.08 kWh	51.2 kWh
	Usable energy ²	9.72 kWh	14.59 kWh	19.45 kWh	24.32 kWh	29.18 kWh	34.04 kWh	38.91 kWh	43.77 kWh	48.64 kWh
	Nominal voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V	409.6 V	460.8 V	512.0 V
	Battery voltage range	80 V - 118.4 V	120 V - 177.6 V	160 V - 236.8 V	200 V - 296 V	240 V - 355.2 V	280 V - 414.4 V	320 V - 473.6 V	360 V - 532.8 V	400 V - 592 V
	Recommended charge / discharge current	50 A / 50 A								
	Max. charge / discharge current	50 A / 50 A								
	Rated DC power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW	23.04 kW	25.6 kW
	Rated charge / discharge power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW	23.04 kW	25.6 kW
	Max. charge / discharge power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW	23.04 kW	25.6 kW
System Data	Dimensions (W / D / H)	1040 / 250 / 600 mm	1040 / 250 / 750 mm	1040 / 250 / 900 mm	1040 / 250 / 1050 mm	1040 / 250 / 1200 mm	1040 / 250 / 1350 mm	1040 / 250 / 1500 mm	1040 / 250 / 1650 mm	1040 / 250 / 1800 mm
	Weight	111.0 kg	157.0 kg	203.0 kg	249.0 kg	295.0 kg	341.0 kg	387.0 kg	433.0 kg	479.0 kg
	Installation location	Indoor / Outdoor								
	Mounting method	Floor mounted								
	Operating temperature range	Charge: 0 °C ~ 58 °C Discharge: -20 °C ~ 58 °C								
	Storage temperature range	-20 °C ~ 60 °C								
	Cooling concept	Natural convection								
	Protective class	I								
	Degree of protection	IP65								
	Relative humidity	5 % - 95 % (Non - condensing)								
	Max. operating altitude	4000 m (>3000 m derating)								
	Communication	CAN								
	Certificate	IEC 62619, IEC 62040, IEC 63056, IEC 61000, UN 38.3								
	Cycle life ³	6000 times								
	Round-trip efficiency	≥ 95 %								

1. Nominal energy is defined under the following conditions: 0.5 C charge & discharge at 25 °C.

2. Usable energy is defined under the following conditions: 95 %DOD, 0.2 C charge & discharge at 25 °C.

3. Cycle life is defined under the following conditions: 90 %DOD, 0.5 C charge & discharge at 25 °C (One cycle a day), 70 %EOL.

