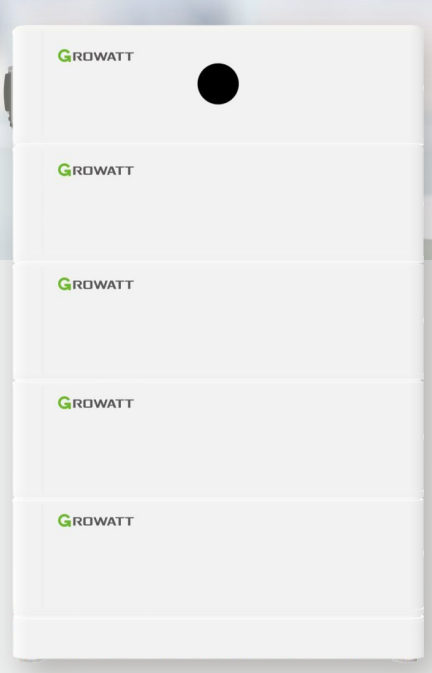
GROWATT

ARK HV Battery System

(ARK 2.5H-A2)

- Flexible capacity options, 5.12kWh to 25.6kWh
- Excellent safety of cobalt free LiFePO4 battery
- Support -10℃ low temperature charging
- Easy installation with modular and stacked design
- Remote firmware upgrade



POWERING TOMORROW

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Datasheet	ARK 5.1H-A2	ARK 7.6H-A2	ARK 10.2H-A2	ARK 12.8H-A2	ARK 15.3H-A2	ARK 17.9H-A2	ARK 20.4H-A2	ARK 23.0H-A2	ARK 25.6H-A2
System demo									
Battery module	ARK 2.5H-A2 (2.56kWh, 51.2V, 27kg)								
Number of modules	2	3	4	5	6	7	8	9	10
Energy capacity	5.12kWh	7.68kWh	10.24kWh	12.8kWh	15.36kWh	17.92kWh	20.48kWh	23.04kWh	25.6kWh
Nominal power*1	2.56kW	3.84kW	5.12kW	6.4kW	7.68kW	8.96kW	10.24kW	11.52kW	12.8kW
Max. charging/ discharging power	4.92kW	7.37kW	9.83kW	12.29kW	14.75kW	17.2kW	19.66kW	22.12kW	24.58kW
Nominal charge/ Discharge current	25A	25A	25A	25A	25A	25A	25A	25A	25A
Max. charging/ discharging current	48A	48A	48A	48A	48A	48A	48A	48A	48A
Dimension (W/D/H)*2	650/260/555mm	650/260/740mm	650/260/925mm	650/260/1110mm	650/260/1295mm	650/260/1480mm	650/260/1665mm	650/260/1850mm	650/260/2035mm
Weight	64kg	91kg	118kg	145kg	172kg	199kg	226kg	253kg	280kg
General									
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)								
DoD	90%								
Cycle life	6000+								
Standard charge/ discharge current	25A/0.5C								
IP protection	IP65								
Installation	Wall-mounted or floor installation*3								
Operation temperature	-10~50℃								
Humidity	5%~95%								
Warranty	10 years								
BMS Controller	**HVC 60050-C2**								
Dimension (W/D/H)	650/260/185mm								
Weight	8.5kg								
Input/Output voltage range	90~585V								
Communication port	CAN								
IEC 62619, IEC 62040, IEC 62477, CE, RoHS, UN 38.3									

*1 Depend on the max. battery charge/discharge power of the inverter.
*2 Include BMS controller.
*3 The battery base and bracket are optional for ARK HV battery.
* Nominal charge/discharge current and power derating will occur related to Temperature and SOC.

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