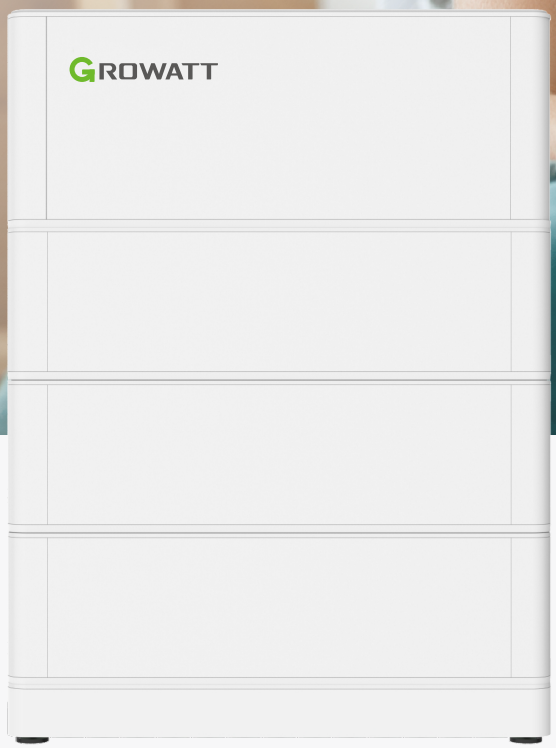
ARK XH Battery System

- Compatible with MIN-XH, MOD-XH series inverter
- Flexible capacity options, 5.12kWh to 25.6kWh
- Excellent safety of cobalt free LiFePO4 battery
- Easy installation with modular and stacked design
- Long lifespan, 10 years warranty
- Remote firmware upgrade



POWERING TOMORROW

GROWATT

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Datasheet	ARK 5.1XH	ARK 7.6XH	ARK 10.2XH	ARK 12.8XH	ARK 15.3XH	ARK 17.9XH	ARK 20.4XH	ARK 23XH	ARK 25.6XH
System Demo									
Power module	BDC 95045-A1								
Number of power modules	1								
Battery Module	ARK 2.5H-A1 (2.56kWh, 51.2V, 28kg)								
Number of Modules in Series	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
Usable Capacity	4.6kWh	6.9kWh	9.21kWh	11.52kWh	13.81kWh	16.12kWh	18.42kWh	20.74kWh	23.04kWh
Max. output power*1	2.5kW	3.75kW	5kW	6.25kkW	7.5kW	8.75kW	10kkW	11.25kW	12.5kW
Peak output power	5kW,10s	7.5kW,10s	10kW,10s	12.5kW,10s	15kW,10s	17.5kW,10s	20kW,10s	22.5kW,10s	25kW,10s
Dimension (W/D/H)*2	650/260/630mm	650/260/815mm	650/260/1000mm	650/260/1185mm	650/260/1370mm	650/260/1555mm	650/260/1740mm	650/260/1925mm	650/260/2110mm
Weight	71kg	99kg	127kg	155kg	183kg	211kg	239kg	267kg	295kg
Nominal voltage (single phase system)	400V	400V	400V	400V	400V	400V	/	/	/
Operating voltage range (single phase system)*3	360V-550V	360V-550V	360V-550V	360V-550V	360V-550V	400V-550V	/	/	/
Nominal voltage (three phase system)	/	650V	650V	650V	650V	650V	650V	650V	650V
Operating voltage range (three phase system)*4	/	560V-950V	560V-950V	560V-950V	560V-950V	560V-950V	560V-950V	560V-950V	560V-950V
Battery Type	Cobalt Free Lithium Iron Phosphate (LFP)								
IP Protection	IP65								
Installation	Wall-mounted or Floor installation*5								
Operation Temperature	–10°C ...~50°C*6								
Relative humidity	5%～95%								
Cooling	Natural								
Warranty	10 years								
Power modules	**BDC 95045-A1**								
Dimension(W/D/H)	650/260/265 mm								
Weight	16.5kg								
Communication Port	CAN/RS485								
Nominal voltage	400V/650V								
Operating voltage range	360V-950V								
Maximum current	21A								
Peak current	42A,10s								
Monitoring Parameters	SOC, System voltage, current, cell voltage,cell temperature, PCBA temperature								
Certification & Licensing	IEC62619(Cell&Pack)/CE/CEC/RCM/UN38.3								

*1 Depend on the max. battery charge/discharge power of the inverter.
*2 Inclulde power module (BDC 95045-A1)
*3 Single phase battery ready ESS supports 2～7 pcs battery modules in series
*4 Three phase battery ready ESS supports 3～10 pcs battery modules in series
*5 Floor installation requires extra base (W*D*H=650/260/265mm)
*6 Battery discharge: -10°C ～ 50°C, battery charge: 0°C ～ 50°C
*ARK series battery has an EU model and a General model, the storage inverters sold in European countries only work with EU model ARK battery.
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