ARK XH Battery System

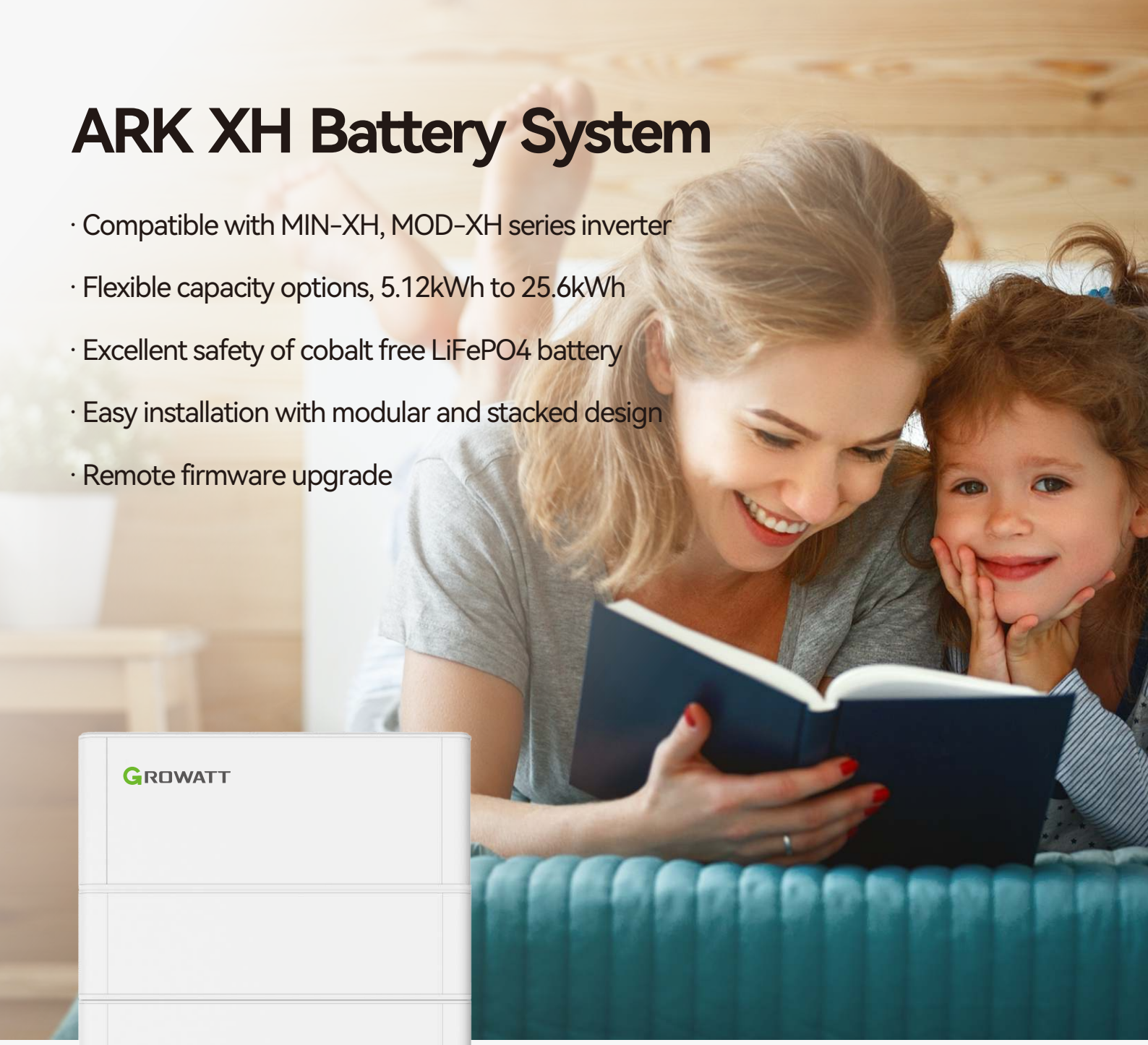
· Compatible with MIN-XH, MOD-XH series inverter

· Flexible capacity options, 5.12kWh to 25.6kWh

· Excellent safety of cobalt free LiFePO4 battery

· Easy installation with modular and stacked design

· Remote firmware upgrade



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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
Max. output power*1	2.5kW	3.75kW	5kW	6.25kW	7.5kW	8.75kW	10kW	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	72.5kg	100.5kg	128.5kg	156.5kg	184.5kg	212.5kg	240.5kg	268.5kg	296.5kg
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	580V-950V	640V-950V
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)								
IP protection	IP65								
DoD	90%								
Installation	Wall-mounted or Floor installation*5								
Operation temperature	-10℃ ...~50℃*6								
Relative humidity	5%~95%								
Cooling	Natural								
Warranty	10 years								
Power modules	**BDC 95045-A1**								
Dimension (W/D/H)	650/260/265mm								
Weight	16.5kg								
Communication port	CAN/RS485								
Nominal voltage	400V/650V								
Operating voltage range	360V-950V								
Maximum current	21A								
Peak current	41A,10s								
Monitoring parameters	SOC, system voltage, current, cell voltage,cell temperature, PCBA temperature								
IEC 62619(Cell&Pack), CE, CEC, RCM, UN 38.3									

*1 Include BMS controller

*2 Includle 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 The battery base and bracket are optional for ARK XH battery

*6 Battery discharge: -10℃ ~ 50℃, battery charge: 0℃ ~ 50℃

* 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.

* Nominal charge/discharge current and power derating will occur related to Temperature and SOC

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