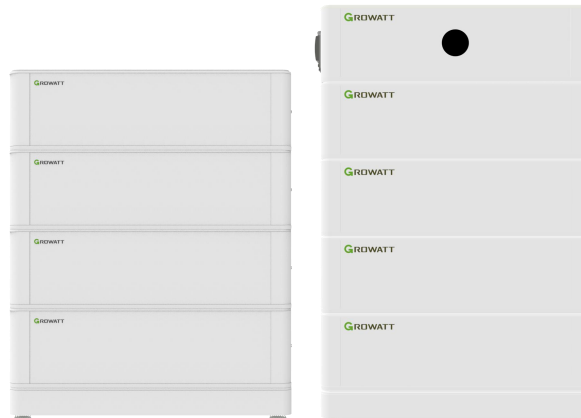


ARK Battery A1/A2 Versions Differences Declaration

General Introduction

Growatt's ARK low and high voltage batteries have a new version of iteration, mainly using - A2 version of the iteration of the original A1 version, the A2 version of the A1 version of the basis of the optimization of the A2 version of the relevant, this article will talk about the differences between the A2 version and the A1 version for customers and installers to make a distinction.









Differences between the old and new versions

1. ARK-LV Battery





➤ Side cover

New version battery used a damping shaft, and the side cover would not rebound when opened. The opening angle can reach 150°, and the cover opening direction is outward, using one screw to lock the side cover, which is convenient for on-site installation.

	ARK 2.5L-A1 (Old version)		ARK 2.5L-A2 (New version)	
Side cover	The opening angle of the side cover of the old version battery is less than 90°		The opening angle can reach 150°	
	Opening direction is inward		Opening direction is outward	
	Two screws lock the side cover		One screw locks the side cover for easy fixing	



➤ **Light display**

The new version of the ARK-LV battery indicator light and button moved to the outside for easy access to information and maintenance.

	ARK 2.5L-A1 (Old version)		ARK 2.5L-A2 (New version)	
Light display	Battery indicator light is hidden, not easy to observe the battery status		Battery indicator light and buttons moved to the outside for easy access to information and maintenance	
				


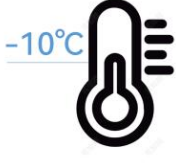
➤ **Cable routing**

The battery to the PCS cables can be routed from the top and from the rear side, which is more convenient for on-site installation.

	ARK 2.5L-A1 (Old version)		ARK 2.5L-A2 (New version)	
Cable routing	The battery to the PCS cables can only be routed from the top		The battery to the PCS cables can be routed from the top and from the rear side	

➤ **Charging temperature**





The new version of the battery cell supports -10°C low-temperature charging, enabling the battery to be charged in colder environmental conditions

	ARK 2.5L-A1 (Old version)		ARK 2.5L-A2 (New version)	
Charging temperature	Supports 0°C charging		Supports -10°C low temperature charging	

2. ARK-HV Battery



➤ **Side cover**

New version battery used a damping shaft, and the side cover would not rebound when opened. The opening angle can reach 150° , and the cover opening direction is outward, using one screw to lock the side cover, which is convenient for on-site installation.

	ARK 2.5H-A1 (Old version)		ARK 2.5H-A2 (New version)	
Side cover	The opening angle of the side cover of the old version battery is less than 90°		The opening angle can reach 150°	
	Opening direction is inward		Opening direction is outward	
	Two screws lock the side cover		One screw locks the side cover for easy fixing	



➤ **Light display**

New version battery's light panel on the front of the BMS Controller for easy access to battery information and maintenance.

	ARK 2.5H-A1 (Old version)	ARK 2.5H-A2 (New version)
Light display	Battery indicator light is inside the side cover 	Light panel on the front of the BMS Controller for easy access to battery information and maintenance 



➤ Cable routing

The battery to the PCS cables can be routed from the top and from the rear side, which is more convenient for on-site installation.

	ARK 2.5H-A1 (Old version)	ARK 2.5H-A2 (New version)
Cable routing	The battery to the PCS cables can only be routed from the top 	The battery to the PCS cables can be routed from the top and from the rear side 





➤ Power cable plug

The wiring port has been optimized. Battery/PCS positive and negative power cables can not be interconnected and are compatible with older power cables, preventing on-site wiring errors and ensuring accuracy.

	ARK 2.5H-A1 (Old version)	ARK 2.5H-A2 (New version)
Power cable plug	Battery/PCS positive and negative power cables can be interconnected 	Battery/PCS positive and negative power cables can not be interconnected and are compatible with older power cables 

How to identify old and new batteries

➤ ARK-LV Battery

	ARK 2.5L-A1 (Old version)	ARK-2.5L-A2 (New version)
Product picture		
Side cover	Has two screws to lock the side cover, and the opening direction is inward	One screw locks the side cover for easy fixing and the opening direction is outward
Light display	Battery indicator light is inside the cover	Battery indicator light is external, which can directly be seen for the battery information
Nameplate	If the nameplate has “-A1” on the model number, it is a new version of the battery	If the nameplate has “-A2” on the model number, it is a new version of the battery
		
Package	No label	New version of ARK 2.5L-A2/ ARK 2.5H-A2 batteries with A2 label on the carton to differentiate between old and new batteries



➤ ARK-HV Battery

	ARK 2.5H-A1 (Old version)	ARK-2.5H-A2 (New version)																											
Product picture																													
Side cover	Has two screws to lock the side cover, and the opening direction is inward	One screw locks the side cover for easy fixing and the opening direction is outward																											
Light display	Battery indicator light is inside the cover	Battery indicator light is on the front of the Control Module																											
Nameplate	If the nameplate has “-A1” on the model number, it is a new version of the battery	If the nameplate has “-A2” on the model number, it is a new version of the battery																											
	<table border="1"> <tr><td>Model</td><td>ARK 2.5H-A1</td></tr> <tr><td>Nominal Voltage</td><td>51.2V</td></tr> <tr><td>Nominal/Rated Capacity</td><td>50Ah/45Ah</td></tr> <tr><td>Nominal/Rated Energy</td><td>2560Wh/2300Wh</td></tr> <tr><td>Rated Current</td><td>25A</td></tr> <tr><td>Ingress Protection</td><td>IP 65</td></tr> <tr><td>Operating Ambient Temperature</td><td>-10°C ~ +50°C</td></tr> </table>	Model	ARK 2.5H-A1	Nominal Voltage	51.2V	Nominal/Rated Capacity	50Ah/45Ah	Nominal/Rated Energy	2560Wh/2300Wh	Rated Current	25A	Ingress Protection	IP 65	Operating Ambient Temperature	-10°C ~ +50°C	<table border="1"> <tr><td>Model</td><td>ARK 2.5H-A2</td></tr> <tr><td>Nominal Voltage</td><td>51.2V</td></tr> <tr><td>Nominal/Rated Capacity</td><td>50Ah/45Ah</td></tr> <tr><td>Nominal/Rated Energy</td><td>2560Wh/2300Wh</td></tr> <tr><td>Rated Current</td><td>25A</td></tr> <tr><td>Ingress Protection</td><td>IP 65</td></tr> <tr><td>Operating Ambient Temperature</td><td>-10°C ~ +50°C</td></tr> </table>	Model	ARK 2.5H-A2	Nominal Voltage	51.2V	Nominal/Rated Capacity	50Ah/45Ah	Nominal/Rated Energy	2560Wh/2300Wh	Rated Current	25A	Ingress Protection	IP 65	Operating Ambient Temperature
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Ingress Protection	IP 65																												
Operating Ambient Temperature	-10°C ~ +50°C																												

Package	No label	New version of ARK 2.5L-A2/ ARK 2.5H-A2 batteries with A2 label on the carton to differentiate between old and new batteries
		