



Battery Version Identification Guide

Identify Your Battery by

Appearance • Serial Number • Firmware

Version 20260615

About This Guide

This guide helps users, installers, and service teams quickly identify battery generations and understand version updates across different HINAESS models.

Each battery can be identified in three methods:

- ① Appearance
- ② Serial Number (SN)
- ③ Firmware Version

For the most accurate result, always verify using SN and firmware information.


METHOD 1 — Identify by Serial Number (SN)

The Most Accurate Identification Method

01. Find the Product Label

Each HINAESS battery includes a Serial Number (SN) label in two locations for quick identification:

 Product Packaging

 Battery Enclosure

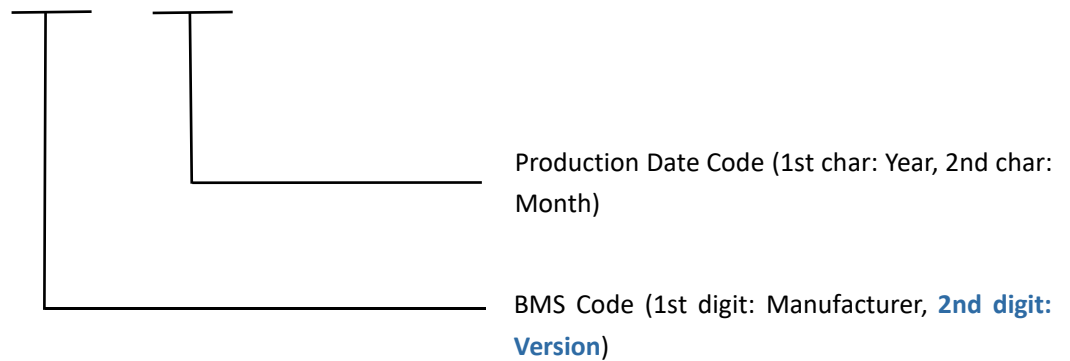


Tip: Use the battery enclosure label as the final reference if information differs.

02. Understand the Serial Number

After locating the label, identify the battery generation through the SN.

Example:



01. BMS Code Mapping

Version	Gen 1	Gen 2	Gen 3
Code	1	2	3

For example: 01 indicates the BMS version is Gen 1.

03 indicates the BMS version is Gen 3.

You can determine the BMS version of the battery by checking the second digit of the BMS code.

02. Production Date Code Mapping

Year	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Code	A	B	C	D	E	F	G	H	J	M	L	M
Month	1	2	3	4	5	6	7	8	9	10	11	12
Code	N	P	Q	R	S	T	U	V	W	X	Y	Z

For example: EN indicates this battery was manufactured in January 2026.

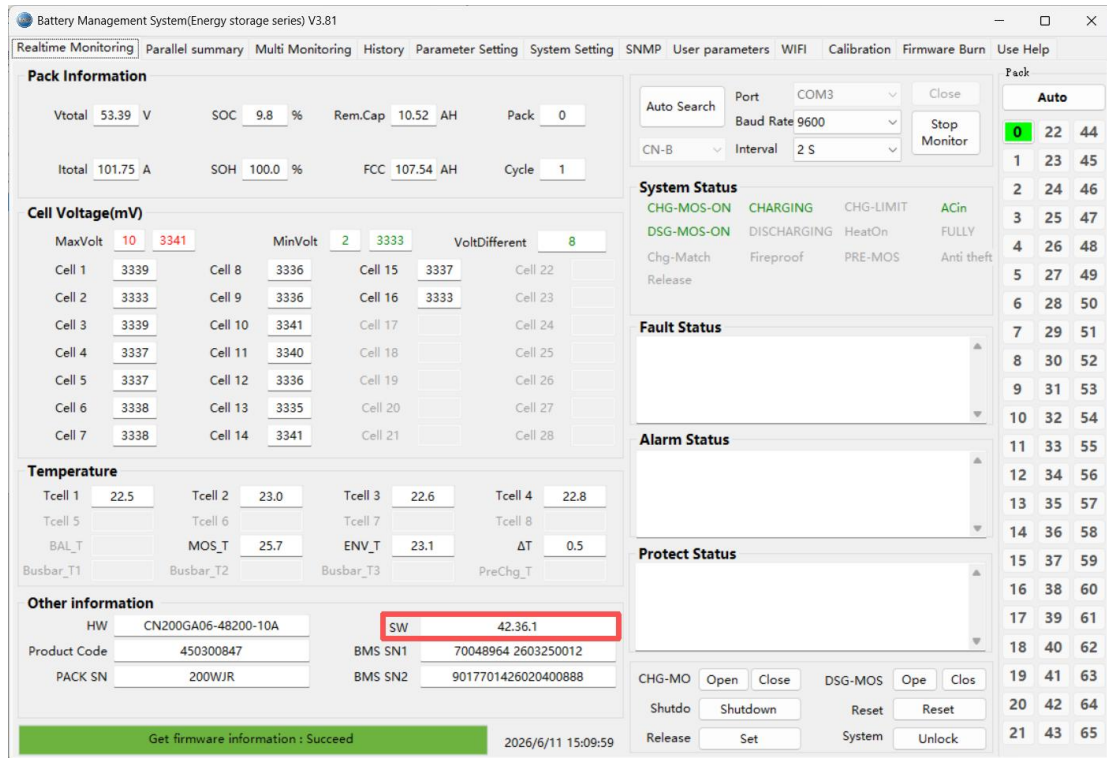
DY indicates this battery was manufactured in November 2025.

METHOD 2 — Confirm by Firmware

Firmware information provides software-level confirmation

Tip: If you do not have access to firmware tools, please contact your installer or distributor for assistance.

Example:



Check the "SW" code on the main control panel, as shown in the figure above, to determine the BMS version.

01. SW Code Mapping

SW Code	BMS Version	Product Model
HN**	Gen 1	Hi-5
UL **/UN**	Gen 2	Hi-5; PowerGem; PowerShield; Battery beast-5
GP**	Gen 2	PowerGem Plus
SP**	Gen 2	PowerShield Max
HE**	Gen 2	Hi-11.8
42.6.**	Gen 3	PowerGem Max
42.19.**	Gen 3	Hi-11.8; E0B-1000
42.40.**	Gen 3	Hi-15e; Beast-15
42.39.**	Gen 3	Hi-7.5e

42.36.**	Gen 3	Hi-5 Gen 3
42.45.**	Gen 3	PowerShield Gen 3
42.43.**	Gen 3	PowerGem Gen 3
42.44.**	Gen 3	Battery-beast 5

* For UL**/UN** SW codes: UL** codes go up to UL99, then continue starting from UN01.

For example: “HN**” indicates the battery model is Hi-5 with BMS Gen 1.

“SP**” indicates the battery model is PowerShield Max with BMS Gen 2.

“42.45.**” indicates the battery model is PowerShield with BMS Gen 3.

METHOD 3 — Find Your Model

Compare Appearance and Discover What’s New




Use the index below and go directly to your battery section.

Product Model	Pages
Hi-5	4-6
PowerGem	6-7
PowerGem Plus	7-8
PowerGem Max	8-9
PowerShield	10-11
PowerShield Max	11-12
Hi-7.5e	12-13
Hi-15e	13-14
Hi-11.8	14-15
Battery Beast-5	15-16
Beast-15	16-17

Hi-5

A. Appearance Identification

Appearance	Version	Dimension	Weight
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	Gen 1	481*452.6*165mm	49kg
	Gen 2	481*452.6*165mm	48.5kg
	Gen 3	438*546*165mm	49.4kg

B. What's New in This Version



See the major updates introduced in each generation.

Category	Gen 1	Gen 2	Gen 3
Max Parallel Units	32	32	50
Wall-mounted Bracket	Optional	Optional	Included
Stackable Bracket	Optional	Optional	Optional

Fire Suppression	NO	Optional	YES
Heating System	NO	Optional	Optional
Wifi & Bluetooth	NO	NO	YES
HINAESS APP Connection	NO	NO	YES

PowerGem

A. Appearance Identification

Appearance	Version	Dimension	Weight
	Gen 2	428*166*640 mm	54kg
	Gen 3	390*170*620 mm	51.45kg


B. What's New in This Version

See the major updates introduced in each generation.

Category	Gen 2	Gen 3
Max Parallel Units	32	50
Wall-mounted Bracket	Included	Included
Fire Suppression	Optional	YES
Heating System	Optional	Optional
Wifi & Bluetooth	NO	YES
HINAESS APP Connection	NO	YES

PowerGem Plus

A. Appearance Identification

Appearance	Version	Dimension	Weight
	Gen 2	475*238*900 mm	120kg

	Gen 3	475*237.5*900 mm	120kg
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B. What's New in This Version


See the major updates introduced in each generation.

Category	Gen 2	Gen 3
Max Parallel Units	32	50
Wall-mounted Bracket	Included	Included
Fire Suppression	Optional	YES
Heating System	Optional	Optional
Wifi & Bluetooth	NO	YES
HINAESS APP Connection	NO	YES
Wheels	Optional	Optional

PowerGem Max

A. Appearance Identification

No changes to the appearance.

Appearance	Version	Dimension	Weight
	Gen 3	445*230*900 mm	120kg



B. What's New in This Version

All PowerGem Max are equipped with the Gen3 BMS. Compared with the earlier batches, the maximum number of parallel units has been upgraded to 50.

Category	Earlier Batches	Now
Max Parallel Units	35	50
Wall-mounted Bracket	Included	Included
Fire Suppression	YES	YES
Heating System	Optional	Optional
Wifi & Bluetooth	YES	YES
HINAESS APP Connection	YES	YES
Wheels	Optional	Optional

PowerShield

A. Appearance Identification

Appearance	Version	Dimension	Weight
	Gen 2	500*167*650 mm	60kg
	Gen 3	450*171.5*680 mm	56.65kg

B. What's New in This Version

See the major updates introduced in each generation.


Category	Gen 2	Gen 3
Max Parallel Units	32	50

Wall-mounted Bracket	Included	Included
Fire Suppression	Built-in	Built-in
Heating System	Built-in	Built-in
Wifi & Bluetooth	NO	YES
HINAESS APP Connection	NO	YES
IP Level	IP65	IP65

PowerShield Max

A. Appearance Identification

No changes to the appearance.

Appearance	Version	Dimension	Weight
	Gen 2	475*235*900 mm	119kg

B. What's New in This Version

All PowerShield Max units are equipped with the Gen2 BMS. Some functions have been upgraded compared with earlier batches.

Category	Earlier Batches	Now
Max Parallel Units	32	32
Wall-mounted Bracket	Included	Included
Fire Suppression	Optional	Built-in
Heating System	Optional	Built-in
Wifi & Bluetooth	NO	YES
HINAESS APP Connection	NO	YES
IP Level	IP65	IP65
Top box for hide exposed wires	Optional	Optional
Wheels	Optional	Optional

Hi-7.5e

A. Appearance Identification

No changes to the appearance.

Appearance	Version	Dimension	Weight
	Gen 3	463*452*225 mm	55.67kg

B. What's New in This Version

All Hi-7.5e are equipped with the Gen3 BMS. Several functions have been upgraded compared with earlier batches.

Category	Earlier Batches	Now
Max Parallel Units	35	50
Fire Suppression	NO	Built-in
Heating System	NO	Optional
Wifi & Bluetooth	YES	YES
HINAESS APP Connection	YES	YES
Wall-mounted Bracket	Optional	Optional

Hi-15e

A. Appearance Identification

No changes to the appearance.

Appearance	Version	Dimension	Weight
	Gen 3	743*452*225 mm	104.9kg


B. What's New in This Version


All Hi-15e are equipped with the Gen3 BMS. Several functions have been upgraded compared with earlier batches.

Category	Earlier Batches	Now
Max Parallel Units	35	50
Wall-mounted Bracket	Included	Included
Fire Suppression	NO	Built-in
Heating System	NO	Optional
Wifi & Bluetooth	YES	YES
HINAESS APP Connection	YES	YES

Hi-11.8

A. Appearance Identification

Appearance	Version	Dimension	Weight
	Gen 2	396*600*229 mm	81kg

	Gen 3	440*600*229 mm	81kg
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B. What's New in This Version

See the major updates introduced in each generation.


Category	Gen 2	Gen 3
Max Parallel Units	32	50
Stackable Bracket	Optional	Optional
Fire Suppression	Optional	Built-in
Heating System	Optional	Optional
Wifi & Bluetooth	NO	YES
HINAESS APP Connection	NO	YES

Battery Beast-5

A. Appearance Identification

Gen2 and Gen3 share the same appearance. The Gen2 has white and silver options, while the Gen3 currently comes in white only.

Appearance	Version	Dimension	Weight
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	Gen 2/3	580* 434 *165 mm	54kg
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B. What's New in This Version

See the major updates introduced in each generation.

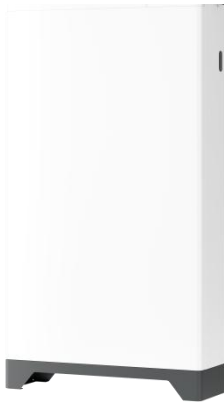
Category	Gen 2	Gen 3
Battery power	5.12kWh	5.12kWh
Number of modules per inverter	1~3	1~3
Fire Suppression	NO	Built-in
Heating System	NO	Optional
Wifi & Bluetooth	NO	YES
HINAESS APP Connection	NO	YES

Battery Beast-15

A. Appearance Identification

No changes to the appearance.

Appearance	Version	Dimension	Weight
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	Gen3	580* 175 *950 mm	117.4kg
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B. What's New in This Version

All Battery Beast-15 are equipped with the Gen3 BMS.

Category	Gen 3
Battery power	15kWh
Number of modules per inverter	1
Fire Suppression	Built-in
Heating System	Optional
Wifi & Bluetooth	YES
HINAESS APP Connection	YES