Batteries

Internal batteries to install into Hub BP Jeweller

Reliable off-grid power sources

Ajax offers a range of batteries to ensure uninterrupted operation of Hub BP Jeweller at off-grid sites. Four battery versions are available: non-rechargeable ones for months to years of use and rechargeable options for shorter, sustainable operation.

Battery versions

Internal battery NB (7.2V/95Ah)

Pack of 10 non-rechargeable LTC ER34615 batteries to install into Hub BP Jeweller

Internal battery RB (6.4V/36Ah)

Pack of 36 rechargeable LiFePO4 batteries to install into Hub BP Jeweller

Internal battery NB (7.2V/190Ah)

Pack of 20 non-rechargeable LTC ER34615 batteries to install in a compatible Ajax casing

Internal battery RB (6.4V/78Ah)

Pack of 78 rechargeable LiFePO4 batteries to install in a compatible Ajax casing

Name	Type	Quantity per pack	Voltage	Total capacity	Months[1] of operation in the Battery power saver (BPS) mode[2]	Months[1] of operation in the full-function mode[2]	Installation
Internal battery NB (7.2V/95Ah)	Non-rechargeable battery (LTC ER34615)	10	7.2 V	95 Ah	25	3	Hub BP Jeweller
Internal battery RB (6.4V/36Ah)	Rechargeable battery (LiFePO4 18650)	36	6.4 V	36 Ah	8	1	Hub BP Jeweller
Internal battery NB (7.2V/190Ah)	Non-rechargeable battery (LTC ER34615)	20	7.2 V	190 Ah	50	6	Case D (430), Case E (395)
Internal battery RB (6.4V/78Ah)	Rechargeable battery (LiFePO4 18650)	78	6.4 V	78 Ah	18	2	Case D (430), Case E (395)

Built for stability and longevity

Non-rechargeable batteries

- High energy density for reliable long-term operation
- Consistent output voltage across the full charge range (from 100% down to 1%)
- Extremely low self-discharge: ≤1% per year during storage
- Up to 10 years of storage life at room temperature and up to 6 months with no impact on performance even at +30 °C (86 °F)

Rechargeable batteries

- Short-circuit protection for safe operation
- Overdischarge and overcharge protection
- Integrated balancer for consistent performance and longevity
- LiFePO4 cells for improved safety compared to traditional lithium-ion batteries

Maintenance-free and easy to handle

- Ready to use straight out of the box
- Easy to install into Hub BP Jeweller or Case D (430)
- Connected via a Molex 2139-2 connector

Dimensions and weight

Internal battery NB (7.2V/95Ah)

Dimensions
135 × 65 × 105 mm
5.31” × 2.55” × 4.13”

Weight
990 g
34.92 oz

Internal battery RB (6.4V/36Ah)

Dimensions
133 × 51 × 120 mm
5.23” × 2.01” × 4.72”

Weight
1,515 g
57.70 oz

Internal battery NB (7.2V/190Ah)

Dimensions
185 × 65 × 125 mm
7.28” × 2.55” × 4.92”

Weight
1,980 g
69.84 oz

Internal battery RB (6.4V/78Ah)

Dimensions
254 × 52 × 134 mm
10” × 2.04” × 5.27”

Weight
3,030 g
106.88 oz

Color

For products
Internal battery NB (7.2V/95Ah),
Internal battery NB (7.2V/190Ah):

black

For products
Internal battery RB (6.4V/36Ah),
Internal battery RB (6.4V/78Ah):

blue

Load current

For products
Internal battery NB (7.2V/95Ah),
Internal battery NB (7.2V/190Ah):

Maximum load current
700 mA

For products
Internal battery RB (6.4V/36Ah),
Internal battery RB (6.4V/78Ah):

Maximum load current
3,000 mA

Installation

For products
Internal battery NB (7.2V/95Ah),
Internal battery NB (7.2V/190Ah):

Operating temperature
–55 °C to +85 °C
–67 °F to 185 °F

Operating humidity
up to 85%

For products
Internal battery RB (6.4V/36Ah),
Internal battery RB (6.4V/78Ah):

Operating temperature
Charging
0 °C to +45 °C
32 °F to 113 °F

Discharging
–25 °C to +65 °C
–13 °F to 149 °F

Storage temperature
–20 °C to +45 °C
–4 °F to 113 °F

Operating humidity
up to 85%

Complete set

Internal battery NB (7.2V/95Ah)
Internal battery

Internal battery RB (6.4V/36Ah)
Internal battery
Charging adapter

Internal battery NB (7.2V/190Ah)
Internal battery

Internal battery RB (6.4V/78Ah)
Internal battery
Charging adapter

[1] Applicable for Hub BP Jeweller with hardware version HB2.011.MBR.001v1. For hardware version HB2.009.MBR.001v4, the expected operating time is as follows:
- Internal battery NB (7.2V/95Ah): up to 16 months in the BPS mode and up to 2 months in the full-function mode.
- Internal battery RB (6.4V/36Ah): up to 5 months in the BPS mode and up to 20 days in the full-function mode.
- Internal battery NB (7.2V/190Ah): up to 33 months in the BPS mode and up to 4 months in the full-function mode.
- Internal battery RB (6.4V/78Ah): up to 12 months in the BPS mode and up to 40 days in the full-function mode.

[2] Battery life estimates are based on operation at +25 °C (77 °F) with 10 paired devices in standby mode. Higher alarm activity may reduce battery life.

For detailed information, scan the QR code or follow the link:

ajax.systems/products/batteries/manuals

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