ANTIGRAVITY

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Battery Charging Hub

Overview

| Item	Description	Function
1	Status Display	Display of battery level and system status of the Battery Charging Hub.
2	Battery Slot	Compatible with Standard and High-Capacity Flight Batteries.
3	Function Button	Press once to check battery level; Press and hold to activate Smart Power Pooling mode.
4	USB Type-C Port	It is recommended to use the Antigravity 65W GaN fast charger, or another fast charger that supports USB PD or PPS protocols, to ensure optimal performance.
5	Battery Bracket	Flipped up when not in use.
6	Protection Cap	Attached during the transportation. Store in a safe place for future access.

Regular Charging

1. Press the button to fold down the battery bracket. This allows for charging three batteries at the same time. Remove the protection cap and store it in a safe place.
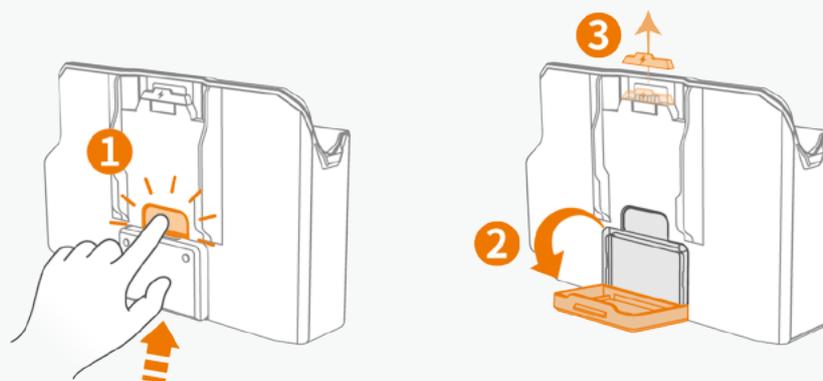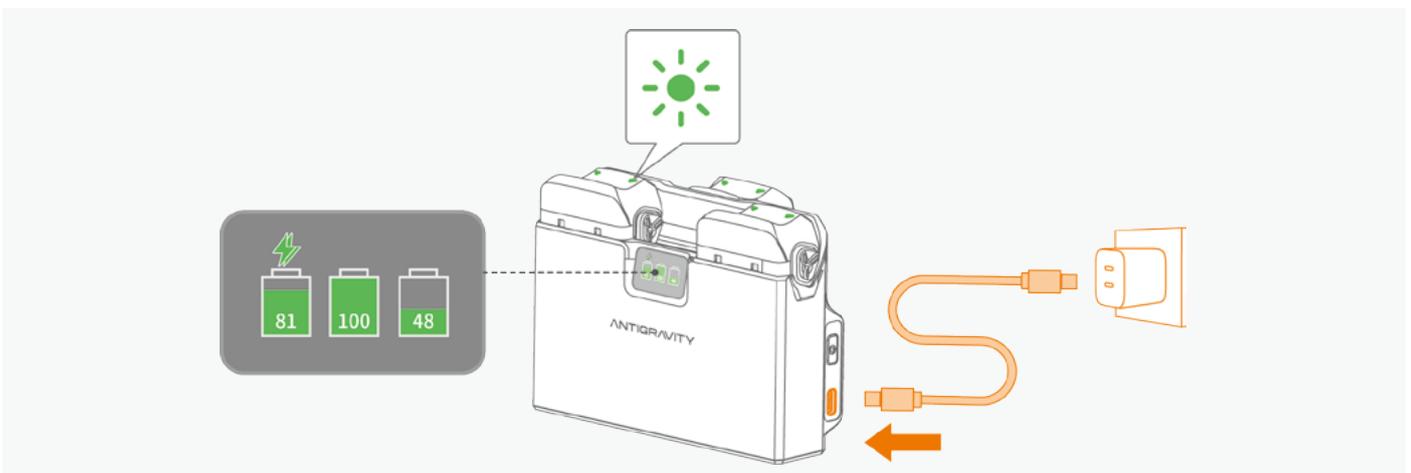
2. Insert the flight battery into the designated slots of the Battery Charging Hub until it clicks into place.
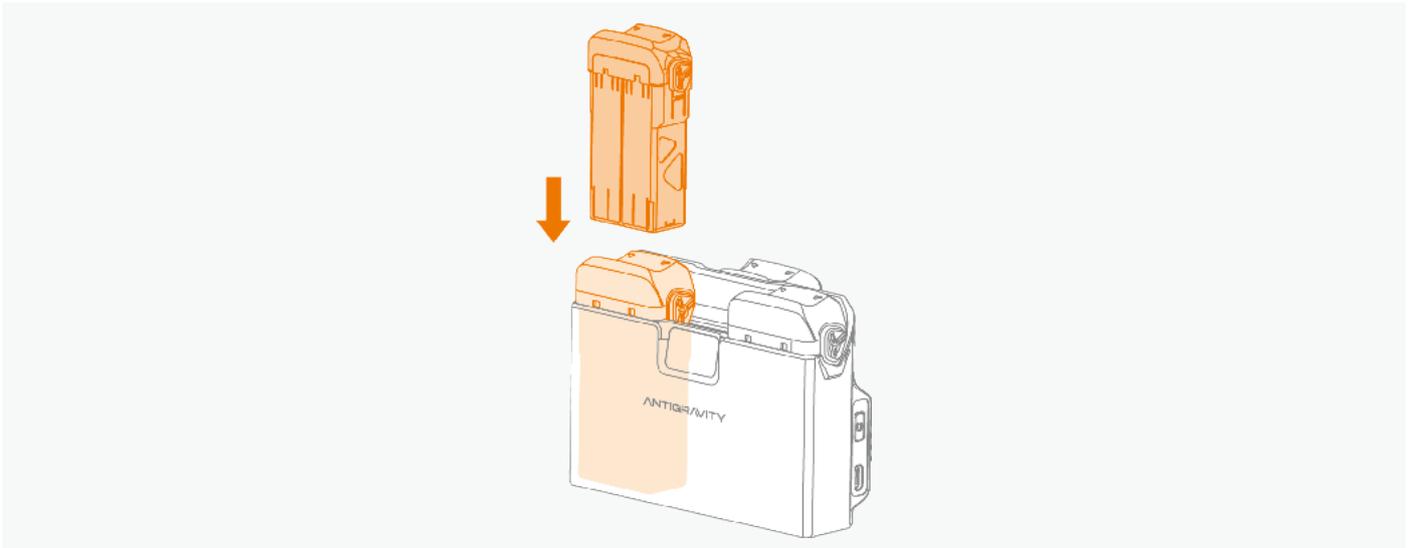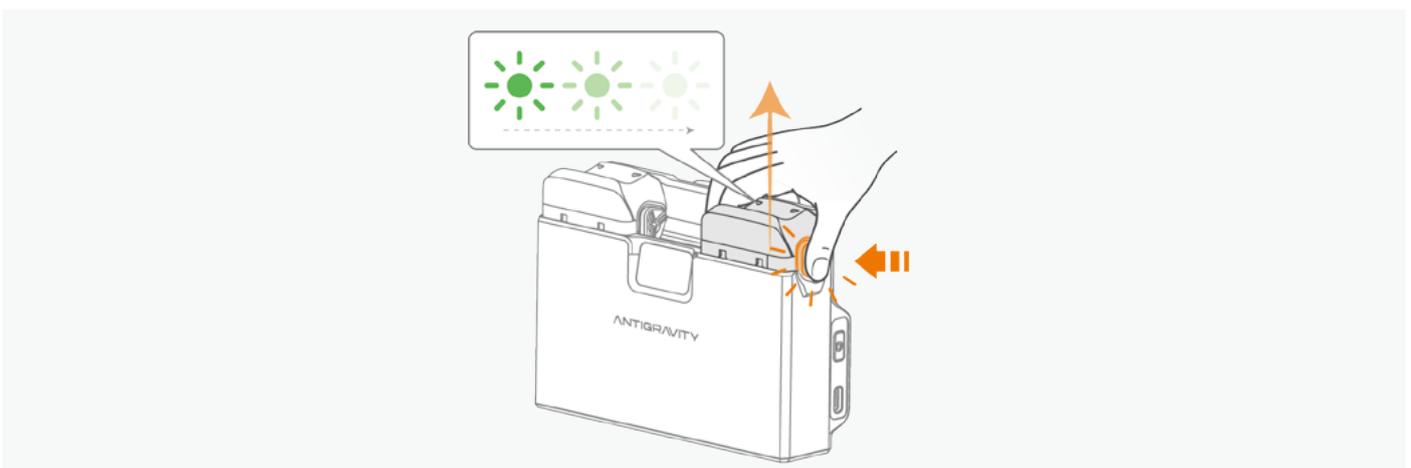

💡 Be aware of pinching when inserting the battery.

3. Connect the Charging Hub to an AC power source using the supplied USB Type-C cable. The hub charges the batteries in sequence based on their remaining power, and the status display panel indicates their charge levels during charging. During charging, the green icon (⚡) indicating that the hub is in fast charging mode, while the white icon (⚡) indicating that the hub is in slow charging mode.
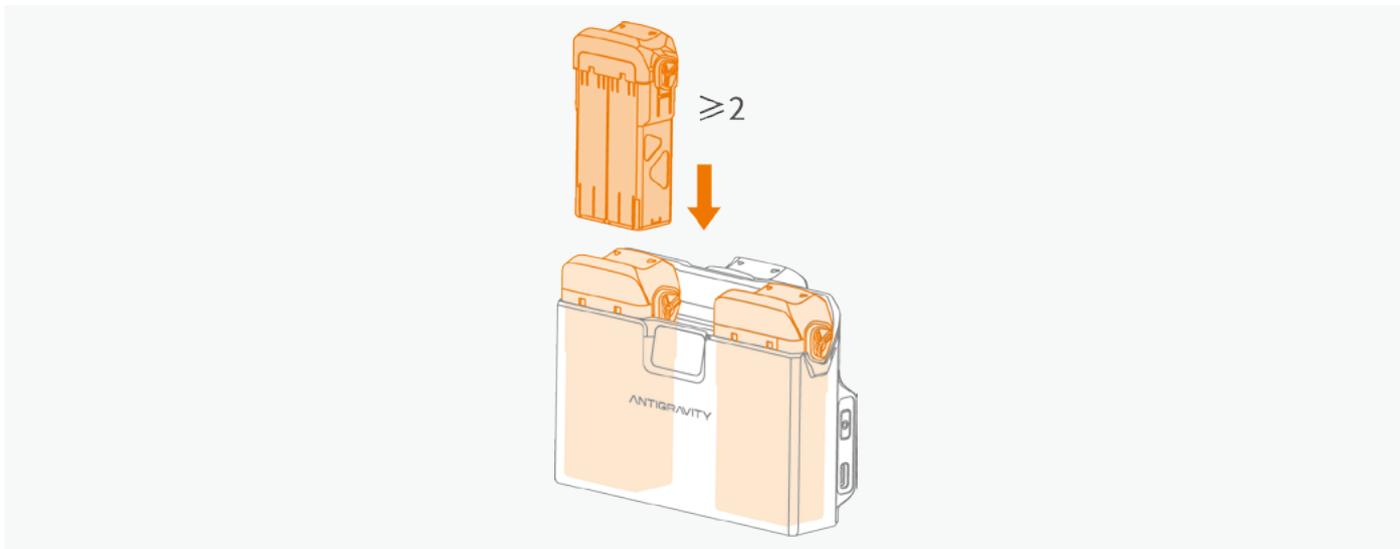

4. When charging is complete, the status LED on the drone battery stops blinking and turns off. Pinch and hold the clips on the top of the battery to remove it.
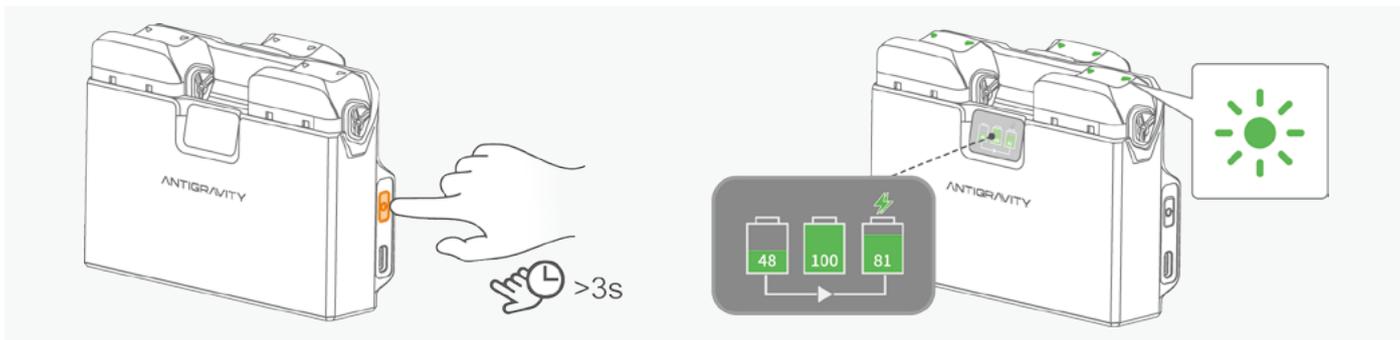
Smart Power Pooling

1. Insert two or more flight batteries into each slot of the Battery Charging Hub until it clicks into place.

💡 Be aware of pinching when inserting the battery.

2. Press and hold the Function Button on the Charging Hub to activate Smart Power Pooling. Once enabled, the status panel displays low-power batteries transferring charge to the highest-capacity battery.
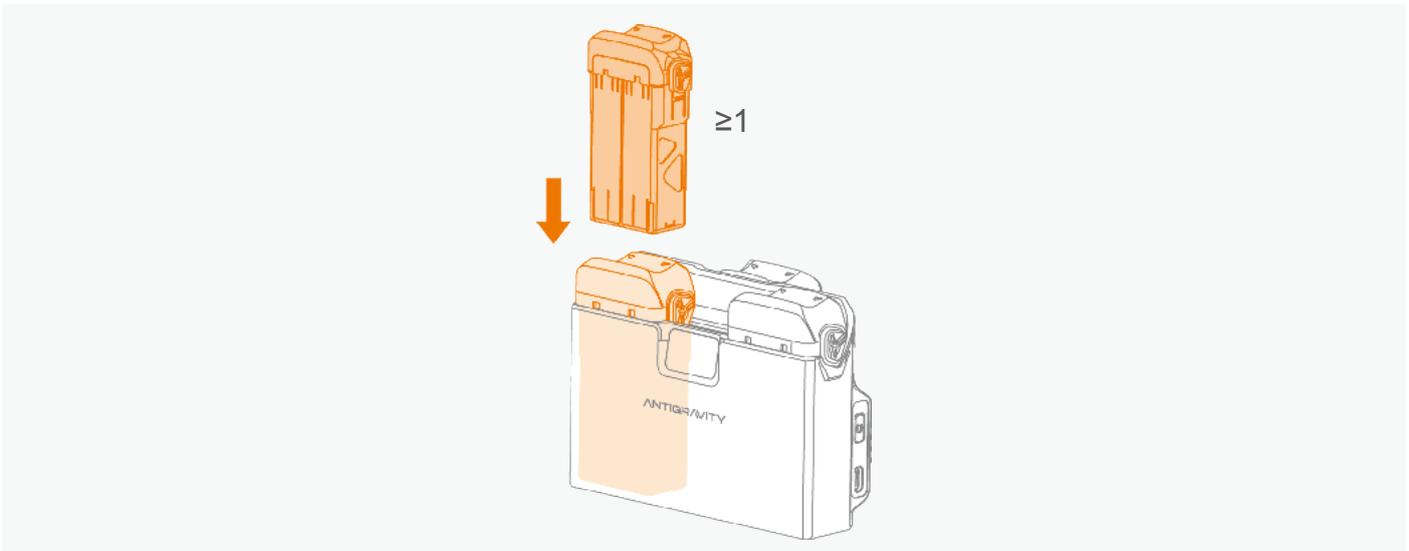

3. To stop the Smart Power Pooling, press and hold the Function button during the process.

💡 The battery level must be higher than 20% to activate the Smart Power Pooling.

Power Bank

1. Insert at least one flight battery into the Battery Charging Hub.

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💡 Be aware of pinching when inserting the battery.

2. Connect an external device (such as a mobile phone or motion controller) to the USB Type-C port on the hub.
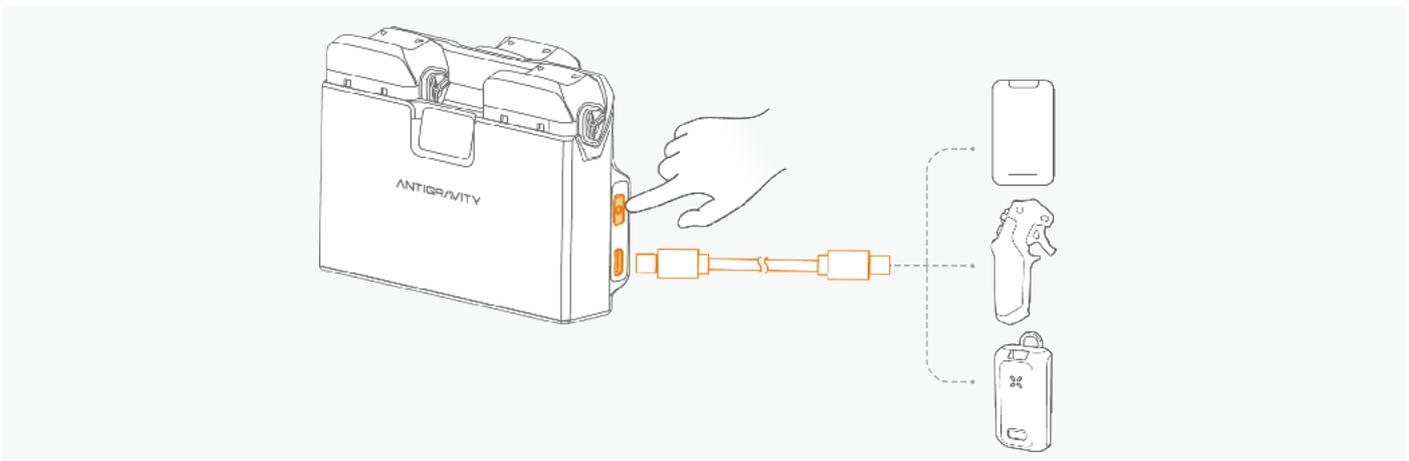
3. Press the Function Button once to begin charging the external device using the power from the inserted battery or batteries.

4. To stop charging, disconnect the external device from the hub.

💡 The battery level must be higher than 10% to activate the power bank mode.

Battery Charging Troubleshooting

The Status Display on the charging hub can display the current system status and provide various error messages. Refer to the table below to find out the meanings of the each icons.

Icon	Description	How to resolve
	Overheat warning	Power off and allow cooling.
	Battery error	Unplug and insert the battery back into the hub. If the problem persists, contact the customer service for assistance.
	Battery Charging Hub overheat	Disconnect the power source to cool down.
	Critical error	Unplug and insert the USB Type-C power source back to the port, if the problem persists, contact the customer service for assistance.
	Battery Charging Hub system error	Remove and insert the battery and reboot the Charging Hub. If the problem persists, contact the customer service for assistance.
	Battery temperature low	Let the battery sit at room temperature.
	Unactivated battery or low battery level	Connect the hub to the power source to activate or charge the battery.
	Low battery level	Connect the hub to the power source to charge the battery.
	Firmware update in progress	Await update process completes.

Specifications

Product Name	Antigravity A1 Battery Charging Hub
Model	CINSBANA
Power Adapter	Supporting USB Power Delivery (PD) or PPS protocol
Dimensions	133.3 × 36.8 × 93 mm (5.25×1.45×3.66 in)
Weight	116.5 g (4.11oz)
Charging Ambient Temperature	5°C~40°C
Operating Temperature	-10°C~40°C
Input	5V⎓3A / 9V⎓5A / 12V⎓5A / 15V⎓4A
Output	5V⎓3A / 9V⎓3A / 12V⎓2.5A / 15V⎓2A
Charging Time for single Standard Flight Battery *	Approx. 45 minutes
Charging Time for single High-Capacity Flight Battery *	Approx. 65 minutes

* Charging time may vary depending on ambient temperature. The listed data was measured in a controlled environment at 25°C.