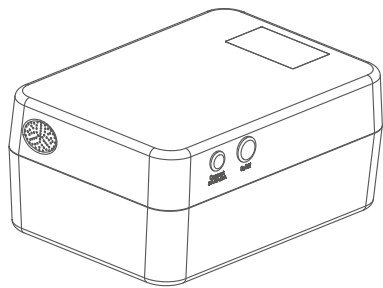


# DronePower 45K-HV

## LiHV Charger

### User manual v1.1



#### WARNING:

This charger is designed to fast-charge ONLY NORMAL 2S, HIGH VOLTAGE (LiHV) 3/4S hobby batteries or DJI batteries for Phantom 3/4, Mavic and Spark series.

**NEVER CHARGE A STANDARD LIPO-3S/4S BATTERY WITH THIS CHARGER AS THE HIGH VOLTAGE WILL DAMAGE THE BATTERY AND CAN BE A FIRE RISK.**

Charging non-LiHV, low voltage LiPo drone batteries (including the batteries for older SplashDrones) with this LiHV charger is dangerous and may cause the battery to catch fire or explode.



#### Product Introduction

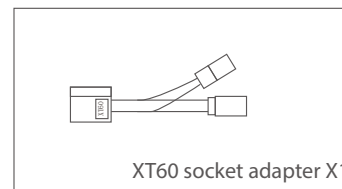
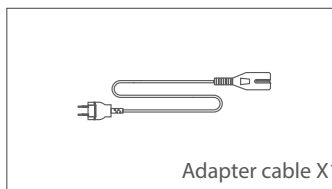
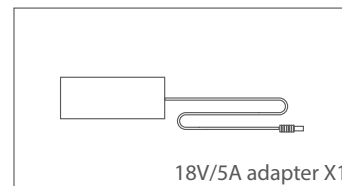
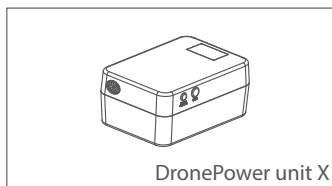
The SwellPro DronePower 45k ingeniously provides up to 45,000mAh of remote charging capacity for your drones and other equipment.

Take a DronePower with you and you can quickly recharge or cycle your drone batteries to keep flying longer - without having to find a power point.

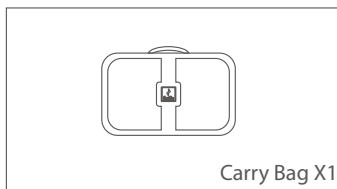
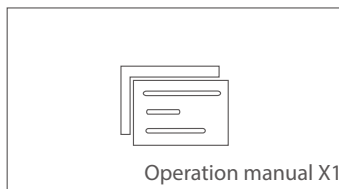
The DronePower's intelligent LCD clearly displays the status of its internal battery and the status of charge of batteries and devices attached for charging.

Designed for the SwellPro SplashDrone 3+, Spry, 2S Lithium batteries, LiHV 3S and 4S batteries as well as DJI batteries for Phantom 3/4, Mavic and Spark series. Other devices that rely on a USB interface for power can also easily be charged.

#### What's in the Box



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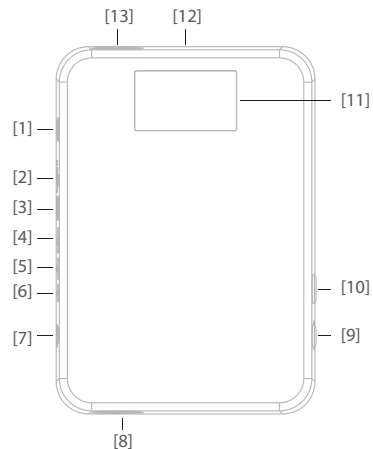
#### DJI Adapter Cables (optional additional purchase)

		Charge directly
DJI Phantom4 Series charging cable		
		Must be used with the charge adapter
DJI Phantom3 Series charging cable		
		One to three charge adapter
DJI MAVIC AIR charging cable		
DJI Spark charging cable		

#### Product Overview

[1] USB Charging Port	[6] 2S Balancing Port	[10] Power Switch
[2] DJI Charging Port	[7] Recharging Port	[11] LCD
[3] XT60 Charging Port	[8] Vent	[12] Handle
[4] LiHV-4S Balancing Port	[9] Output Current Switch	[13] Vent
[5] LiHV-3S Balancing Port		

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#### Before using your SwellPro DronePower 45k

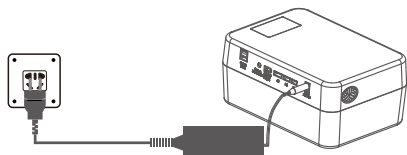
Your new DronePower is shipped from the factory with the battery only partially charged. Before using the unit for the first time, please charge the DronePower batteries fully.

#### Charging

Before first use and whenever "Battery Low" flashes at the bottom corner of the LCD, the DronePower unit must be charged using the supplied Mains Power Adapter.

A full charge can take 8-10 hours. When fully charged, the display shows "Full" and the DronePower will automatically stop charging. Please disconnect the Mains Power Adapter.

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Power connection

VOL:14.8V CUR:0.11A	
C-1: 3.70V	C-2: 3.70V
C-3: 3.70V	C-4: 3.70V
C-1: ---	C-2: ---
C-3: ---	C-4: ---

Battery Low

### Low power warning

VOL:16.8V CUR:0.11A	
C-1: 4.20V	C-2: 4.20V
C-3: 4.20V	C-4: 4.20V
C-1: ---	C-2: ---
C-3: ---	C-4: ---

DronePower Charging

Charging

VOL:16.8V CUR:0.11A	
C-1: 4.20V	C-2: 4.20V
C-3: 4.20V	C-4: 4.20V
C-1: ---	C-2: ---
C-3: ---	C-4: ---

Full

Charging Complete

### LCD Screen

The DronePower has a backlit, intelligent display which clearly shows the status of the unit and the status of devices under charge.

VOL:15.3V CUR:0.11A	
C-1: 3.84V	C-2: 3.86V
C-3: 3.84V	C-4: 3.83V
C-1: ---	C-2: ---
C-3: ---	C-4: ---

Idle

VOL:15.3V CUR:-2.91A	
[1] C-1: 3.84V	C-2: 3.86V
C-3: 3.84V	C-4: 3.83V
[3] C-1: ---	C-2: 3.86V
C-3: 3.84V	C-4: 3.83V
[5] C-3: ---	C-4: ---

2S~4S battery charging

VOL:15.3V CUR:-2.90A	
C-1: 3.84V	C-2: 3.86V
C-3: 3.84V	C-4: 3.83V
C-1: ---	C-2: ---
C-3: ---	C-4: ---

Battery Charging Cur:3A

DJI battery charging

- [1] DronePower Internal Cell Information
- [2] DronePower charge level
- [3] External device cell information
- [4] Charging state
- [5] Mode/Status
- [6] Selected charging current

### Charging a USB device

1. Briefly press the Power Switch [10].
2. The DronePower will boot and the LCD display will light up.
3. Connect the USB device that requires charging to the DronePower. Plug the device's own USB cable into the DronePower USB charging Port [1].
4. If the DronePower does not detect a USB device within 10 seconds, it will automatically power down.

### Multi-charging DJI Batteries

By using the optional DronePower DJI Mavic Pro, Mavic Air or Spark adapter, up to three of these batteries can be charged at the same time. Note: The 3 batteries must be of the same type and charging multiple batteries at the same time will increase the charging time.

### Charging DJI with non-DJI batteries

It is not possible to charge DJI batteries at the same time as other battery types. If DJI batteries are connected, the DronePower 45K will only charge these batteries. To charge other battery types, disconnect the DJI batteries and reboot the DronePower 45K to charge LiPo/LiHV hobby batteries.

### Charging LiPo-2S or LiHV-3S/4S hobby batteries

To charge LiPo-2S or LiHV-3S/LiHV-4S hobby batteries, connect the battery to the XT60 socket as well as the appropriate 2S/3S/4S sensor sockets. If your battery uses a JST or DuPont connector, use the supplied adapters to connect the battery to the XT60 charging socket.

### USB Power/Charging

Regardless of the battery type being charged, the USB interface can also charge any USB device at the same time.

### Fast-Charging Lithium batteries

When charging LiPo-2S or LiHV-3S/LiHV-4S batteries, you can increase the charging current to reduce the charging time.

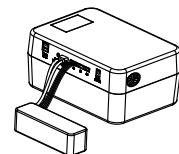
By default, your DronePower will charge Lithium batteries at 3 Amps. To change the charging current:

### Charging a LiHV lithium battery (2-4S) or DJI battery pack

1. Briefly press the Power Switch [10].
2. The DronePower will boot and the LCD display will light up.
3. Press and hold the Power Switch [10] for 2 seconds to select Battery Charging mode.
4. Connect the Lithium battery that requires charging to the DronePower:
  - For standard LiPo-2S or LiHV-3S/LiHV-4S battery, connect the battery directly to the matching balancing port [4][5][6] and connect the XT60 cable to the XT60 Charging Port [3].

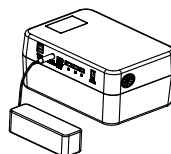
Connect either a LiPo-2S battery or LiHV-3S/LiHV-4S (HIGH VOLTAGE).

**NEVER CHARGE A LIPO-3S/4S BATTERY WITH THIS CHARGER AS THE HIGH VOLTAGE WILL DAMAGE THE BATTERY AND CAN BE A FIRE RISK.**

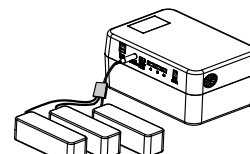


Charging connection of LiPo-2S battery or LiHV-3S/LiHV-4S battery

- For DJI Phantom batteries, connect the battery to the DronePower using the optional DJI Phantom cable available from SwellPro or your local SwellPro dealer.
- For DJI Mavic Series and Spark batteries, connect up to three of these batteries to the DronePower 45K using the optional DJI Charge Adapter available from SwellPro or your local SwellPro dealer.



Lithium battery connection for DJI Phantom series drone



Battery connection of DJI Mavic, Mavic Air and Spark drone

- Press and hold the Output Current switch [9] for more than 2 seconds
- The charge rate displayed on the LCD will start to blink 5A, indicating that 5 Amp charging mode has been selected.
- Press and hold the Output Current switch again to cycle through the available charging rates.

### Recommended Charging Current

For your safety and to prolong the life of your batteries, use the following recommended charging currents.

Battery Capacity	Recommended Output Current
Less than 1000mAh	DO NOT EXCEED 3A
1000 – 3000mAh	5A
Greater than 3000mAh	8A

### Specification

- Capacity: 45000mAh 14.8V
- Energy: 666Wh
- Rated input: 18V 5A
- Rated output for lithium batteries (2S/3S/4S): 3~8A
- Rated output for DJI batteries: 3.3A
- Rated output for USB devices: 3A
- Display: Intelligent LCD digital control screen
- Dimensions: 228x160x103mm
- Weight: 3610g
- Supported batteries: Hobby LiPo-2S or LiHV-3S/LiHV-4S batteries, DJI PHANTOM 3/4 series, Mavic series, Spark series Lithium battery, mobile equipment Lithium battery, etc.
- Operating Temperature: between -10°C and 40°C