



Zifon®

ZF-BP190 & ZF-BP230

High-Power Li-ion V-mount Battery

• Instruction Manual •

Thank you for purchasing the ZF-BP190&ZF-BP230 High-Power Li-ion V-mount Battery, we strongly recommend reading this instruction manual. Please keep this manual for reference.

Caution for safety use

Improper handling of this LI-ION battery may result in smoke, heat, fire, explosion or leakage as well as cause performance degradation or failure. Please be sure to observe the following precautions.

⚠ DANGER:

- May cause sudden injury and death.
- Charge with professional charger only.
- Do not short the contact pins with any metal objects. Do not carry or store with metal equipment.
- Do not expose to heat and never throw the battery in a fire.
- Do not immerse in water. Keep the battery dry and away from excessively dry or humid environments.
- Do not leave the battery exposed to excessive heat such as in car or directly under the sun light. Do not use outside of specified temperature ranges.
- Do not solder on contact pins directly.
- Do not attempt to open the outer casing or break apart the battery.
- Do not subject the unit to extreme physical impact or pressure, or place any object across the terminals that could cause it to short.
- Do not pierce or drill into the outer casing of the unit.
- Do not attempt to use the battery if damaged.
- Do not use the battery in a corrosive environment. Damages occur from salt water, sea water, acid, alkali, corrosive gas, etc.

⚠ WARNING

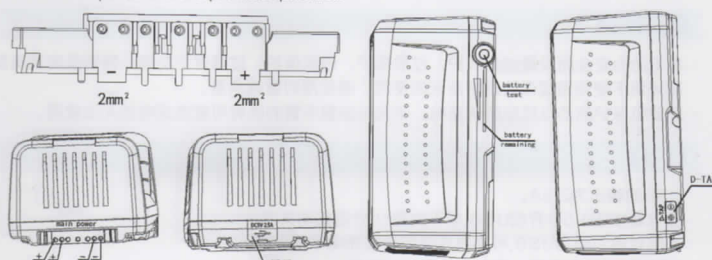
- May cause serious injury and death.
- Please note that the outside casing becomes hot when the battery is discharged in high temperatures or with high loads.
- Stop charging immediately if the battery fails to charge within designated time. Refer to charger manuals for charging time.
- Do not use if the battery displays unusual characteristics (odd odor, discoloration, etc.) when in use during charge or storage.
- Keep away from fire if the battery leaks fluid or has an unusual smell.
- In case of leakage immediately wash your hand and face thoroughly with clean water.
- Immediately seek medical attention if battery fluid get contact with your eyes.

⚠ CAUTION

- May cause injury or damage other equipment
- Follows instructions on charging and discharging.
- Store in cool and dry conditions.
- During long period of inactivity, please remove the battery from the equipment.
- Do not use, store or place the battery in an electrostatic area.
- Always keep the connectors clean.

Product features

ZF-BP190&ZF-BP230 High-Power Li-ion V-mount battery has double+ and double-output (standard battery has 1+ and 1-). The battery main output + and - adopt 2 square millimeter copper terminals. It allows 14A and 160 w continuous output. Together with our professional 7 terminal V-plate you can get more stable and continuous high power output. This battery is designed for high power led video light, high power video camera with more accessories, and other heavy load equipment. The battery cells allow 3c discharge, it has low internal resistance and less heat. It is equipped with 2.5A USB output, it can provide power to the USB equipment. The battery remaining has 8 grade indicator. It is more accurate compared with the previous product.



Charging

- Please charge with ZIFON charger or professional charger.
- The max charge current is 6A. please charge this battery under 6A.
- It is recommended to charge this battery between 10°C and 30°C.
- Please use our D-TAP charger when charging through D-TAP connector, the max charging current is 6A.

Discharging

- The max total continuous discharging power is 160w, the main power is 160w max, the D-TAP power is 70w max, the USB power is 12.5w max. When the main power is discharging at 160w full power, the D-TAP and USB can not be used. If the total power exceeds 160w the protect circuit will be activated and it will stop discharging and may cause damage the battery. If the fuse is blown off due to an overload, the battery won't recover.
- The battery life may diminish if high loads are applied frequently.
- Battery run time may reduce when use in extreme high and low temperature. It is highly recommended to use the battery in ambient temperature of 10°C-40°C.
- The discharge characteristic of lithium ion batteries illustrated a steady curve until 13V.
- The battery will automatically stop discharging when the voltage reach 11v. To extended battery life, we recommended to stop using before the battery reaches 12v.
- Please be sure to remove the battery from the device after use. If the battery left mounted on the device that has large standby power, the battery will exhausted.

Capacity display LEDs

- The remaining capacity is shown with 8 built in LEDs
- Press the check button the LEDs on, release the button 10 seconds later the LEDs off.
- When the battery reaches the last led, it will flicker to remind the user to change the battery, when all the LEDs off the battery will be exhausted.
- The capacity remaining is based on battery voltage, it varies according to the load, so it is only for reference. Not accurate.

Protection circuitry

- There are four types of protection circuits to ensure the battery is protected from over charge, over discharge, over current, over heat. If the protection fuse is blown, the battery is no longer operable.
- Please charge the battery immediately when the over discharge protection is activated. The battery may become unusable if the battery is not charged at the moment.

USB

- USB connector for power supply. (DC5V2.5A)
- To activate USB power output, push and hold the check button for 0.5 second.
- USB power will turn off automatically 10 seconds after the USB cable is removed.
- Do not draw power from USB when charging as it may interrupt charging, cause a charge error.
- The terminal does not provide data, only power.

Specifications

Battery capacity: 190WH (ZF-BP190) / 230WH (ZF-BP230)

Charge voltage: DC16.8V

Max charge current: 6A

Max discharge current: 6A

D-TAP: 70W/4.2A (16.8V) - 6.3A (11V)

USB: 12.5W (DC5V*2.5A)

End voltage: 11V

Protection circuit: over charge, over discharge, over current, over temperature.

Dimension: 97 (W) * 145 (L) * 74 (H)

Weight: 1.4KG

Storage

- Store in cool and dry conditions.
- Do not store or leave in temperatures of 50°C or above.
- For long term storage, please store within about 30%-40% of capacity and recommend for recharging every 5 month.
- Deterioration of battery performance will be accelerated when the battery stored in a high ambient temperature or stored for a long period without use.

Life cycle

- Life may vary depending on frequency of use, storage and operational temperature environment.
- Life will be reduced if frequently used with high load applications.
- Life is also reduced if stored in fully charged or empty conditions for extended period.

Compensation for recorded content

Recorded content can not be compensated for if recording or playback is disabled due to a malfunction of the battery pack or other devices.