

SOCOM GEAR AIRSOFT AEG LI-POLYMER BATTERY MODEL# AEGPower-03 [11.1V, 1000mAh, 10C][Stick Version]

Fit to: AK series

Features:

- HIGH PERFORMANCE AND LESS HAZARDOUS FORMULA
- SPECIAL DESIGN FOR AIRSOFT AEGS; NOT AN RC REBRAND BATTERY
- ENHANCE YOUR AEG (BPS, BALLS PER SECOND, BBS PER SECOND)
- HIGHER VOLTAGE, CURRENTS, "C" AND SPECIAL LESS HAZARDOUS FORMULA
- CE [BCT07CC-116E] AND SGS CERTIFIED [EC405564100]

NOTE: The CE marking (an acronym for the French "Conformite Europeenne") certifies that a product has met EU health, safety, and environmental requirements, which ensure consumer safety.

Specifications:

Nominal Capacity 1000mAh*/Nominal Voltage 11.1V**/CELL internal resistance $\leq 25m\Omega$ /Charge Current max. 1A(1C) /Voltage max. 4.25V/ Discharge Continuous Current Max. 10A per cell, 30A per pack(10C) / Burst Current Max. 15A per cell , 45A per pack (15C)/Voltage cut-off 3.0V/Cycle Life/80% Retention 1C 500 cycle/10 C 100 cycle/Self -Discharge <8% per month/Operating Temperature Range Charge 0°C~45°C 32°F~113°F/ Discharge -20°C~60°C -4°F~140°F/ Storage -20°C~45°C -4°F~113°F/ Pack

Diameter 18.0±0.2mm 0.71±0.05 in./ Dimension Length 150.0±1.0mm 5.90±0.05 in. Weight Appro 146.0g Appro 5.15once

*Nominal capacity (average discharge capacity) : discharge current 0.5C, end of voltage 3.0V, temperature 23±2°C.

**Nominal voltage (average discharge voltage): discharge current 0.5C, end of voltage 3.0 V, temperature 23±2°C.

Warning:

Failure to follow these instructions can quickly result in leak, explosion, or permanent damage to the batteries and its surrounding and may even start a fire.

- (1) A new battery comes in a discharged condition and must be charged before use (refer to the device manual for charging instructions).
- (2) The battery should be used in the environment as listed below. Otherwise, the battery lifespan and function would be substantially reduced. Under extreme environments, batteries may overheat, explode, or even catch fire
- (3) Similar to NiCd and NiMH batteries, lithium-polymer batteries can release extremely high voltages.
- (4) Always use battery manufacture approved chargers to recharge the batteries.
- (5) Always empty the chamber of your AEG, remove the magazine, put on barrel cap and put on safety before you change the battery.
- (6) Never place the battery near the heater, fire, or any heat sources. Never throw the battery into the water or keep the batteries in a damp environment.
- (7) Never allow a battery's positive and negative leads to accidentally touch each other.
- (8) Never connect the battery to the wall plug or cigarette lighter plug in vehicles.
- (9) Never dispose batteries with fire or warm up the battery using any heat sources.
- (10) To avoid short-circuit, all batteries should be stored or shipped free of any conductive materials, including necklace, hairpin or any metals.
- (11) Never hit or throw the battery against any walls, floors or hard subjects which may damage the batteries by violent mechanical vibration.
- (12) Never use hammer, nail or any sharp object to pierce or penetrate through the battery insulator.
- (13) Never solder the battery's connectors with wires.
- (14) Never disassemble the batteries in any means.
- (15) Never charge the battery in an extreme hot environment.
- (16) Never place the battery in a microwave or pressurized container.
- (17) Never use the lithium-polymer batteries with the disposable batteries or rechargeable batteries in different types, capacity or brands.
- (18) Before and after every use of your lithium-polymer batteries, inspect all cells in the pack as much as possible to ensure no physical damages, discolor, heat emission, or swelling in evident. Such signs can often indicate that a dangerous problem exists and the batteries should be disconnected and disposed immediately.
- (19) Always store the lithium-polymer batteries in a secure location away from children. If a child accidentally ingests the battery, the child should receive medical attention immediately.
- (20) Remove or dispose the batteries immediately when batteries are leaking watery substance and emit strange order.
- (21) Do not allow the battery's electrolyte to get in the eyes or skin. Wash affected areas with soap and water immediately if they come in contact with the electrolyte. If electrolyte makes contact with the eyes, flush with large amounts of water for 15 minutes and seek medical attention immediately.
- (22) To prolong battery life-span and to ensure battery full function, charged battery should rest for at least one hour before discharging.
- (23) Never keep the batteries in an extreme environment, such as direct under sun light or inside the car during hot summer. Otherwise, batteries will overheat or even ignited to substantially shorten the lifespan and damage the function of the batteries.

Working environment: Charge : 0°C~45°C/ Discharge: -20°C~60°C / Storage for 30 days : -20°C~45°C / Storage for 90 days : -20°C~35

°C

Rate of Discharge:

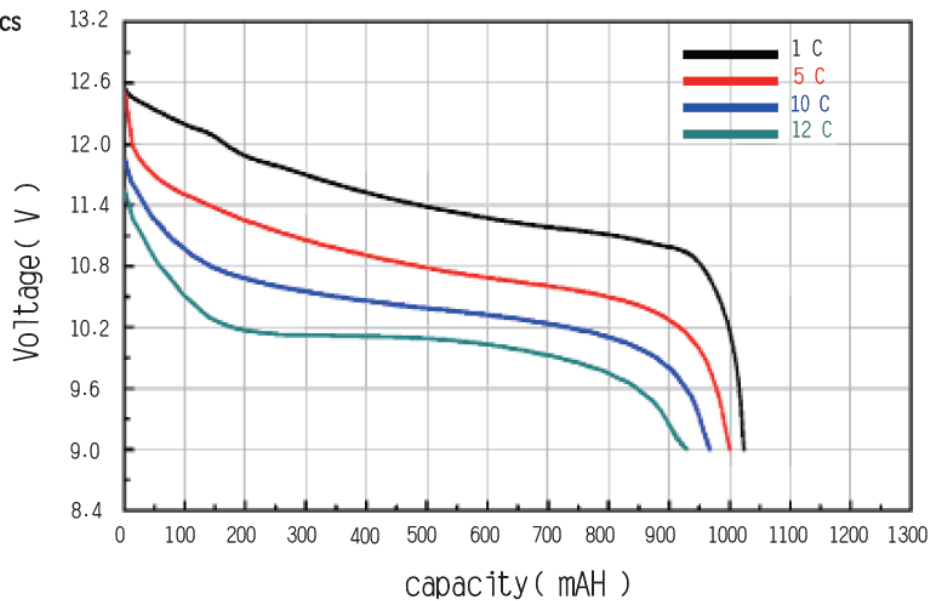
Rate Discharge Characteristics

Charge:

1A, 4.2V (CC-CV),
50mA cut-off, at $23 \pm 2^\circ\text{C}$

Discharge:

at each rate, CC,
3.0V cut-off, at $23 \pm 2^\circ\text{C}$



The information in this document is based on documents issued in March, 2008 at the latest.

The information is subject to change without notice. For actual design-in refer to the latest publication of data sheet, etc., the most up-date specifications of the device.

More knowledge of Li-Po Batteries:

(1) What are factors to enhance the shooting speed (BPS, B.B. per Second)? Voltage, Currents and C. All three!

(2) What is your battery's continuous current? $\text{mAh} \times \text{C} = \text{mA}$, For example, Our 1500mAh, 10C battery, the continuous current will be $1500\text{mAh} \times 10\text{C} = 15000\text{mA} = 15\text{A}$ (pre cell) A 11.1 Volt Li-Po batteries have 3 cells, so, the continuous currents will be $15\text{A} \times 3$ (cells) = 45A

(3) What's the current (A) my AEG needs? An extreme example: 120 meter/sec (393ft/sec) + 40 BPS (B.B. per Second) need about 60A. Normal AEG without modification (300 ft/sec) + 10 BPS only need start current at 20A.

(4) What is my battery life? Depends on the current your AEG needs. The lower current of your AEG, the longer battery life.

(5) How come people say the Li-Po batteries are dangerous? Normally, if you use the right charger, don't pinch or penetrate your battery, the battery is very safe. However, no one can guarantee the 100% safety of the Li-Po battery, If you find your the battery expanding, leaking, or become extremely hot, please disconnect the battery immediately. Please read our "WARNING" section for more details. If you need the 100% safe Li-ion battery, please contact MadBull Airsoft. Their LFP batteries are the only 100% safe batteries in the industry.

(6) How to tell other brands Li-Po batteries is stating the correct "C" value information? For example, there is a battery company states that their battery is 11.1V, 2100mAh, 20C, 42A. Is this the correct information? First, let's check the C value is correct or not. Let's do the calculation: 42A for 3 cells means each cell comes with 14A. As you know that $\text{mAh} \times \text{C} = \text{mA}$, $2100\text{mAh} \times \text{C} = 14\text{A} = 14000\text{mA}$, So, the $\text{C} = 6$. You have to doubt their C value.

(7) Should I choose the T style (T-plug) connector (red color) or should I use the original JST connector (white color)? The standard JST connector can take 80A. Unless your AEG take a lot of current (A,) you don't have to change to T style connector. However, a lot of AEG company's JST connector didn't meet the standard (using low quality materials), in this case, you'd better change your connector.

(8) What is shortage happened? From example, your connector melt or your fuses touch to other metals. If the positive and negative wires contact each other, your wiring cable will become extremely hot and will burn down the connector on the battery. Once the wiring get off the connector, it stops melting and burning. Unless you have expert to help you rebuild your battery, we will suggest you to recycle your battery.

(9) Let's see what happened if I penetrate my battery or if I use the wrong charger to charge my battery: We have video uploaded to our website at SOCOMGEAR.com If you penetrate our SOCOM Li-Po battery, the battery will generate a lot of black smoke and the battery will become hot. When we did the testing, we use a thick cardboard under the battery and didn't cause fire. However, this didn't guarantee that you won't get fire under the similar conditions. Our battery's formula will reduce flame and heat but didn't guarantee that it won't catch fire. So, never try to penetrate your battery. If you use the wrong charger, per our testing video, the battery will only expand and stop working. However, don't use the wrong charger. We can't guarantee that it won't catch fire or explosion under the similar condition.

(10) Why we are so confident that we know our batteries? We are coming from MadBull Airsoft's R&D team. We have a lot of Phds and Maters as our backups. We don't "re-brand" our batteries from other un-known factories. We make our battery in-house with high standard QC.

You have to agree the following Terms and Conditions before you purchase and use:

Terms and conditions:

WARNING: Assumption of Risks

There is a serious risk of personal injury, death, or property damage arising out of the use or misuse of this product. By using this product, you agree to freely accept and full assume all such risks.

WARNING: Exclusion of Liability

In consideration of SOCOM GEAR / MAX Tactical Corp. granting you the limited warranty set out hereinbelow, neither SOCOM GEAR / MAX Tactical Corp. nor its officers, directors, employees, agents, successors, distributors and dealers (all of whom are hereinaster collectively referred to as the "releasees"), shall be liable for any loss or damage whatsoever, whether general, direct, indirect, special, incidental, consequential, punitive, aggravated or exemplary and whether resulting from ordinary or gross negligence, breach of contract, or breach of any statutory, regulatory or common law duty, and whether such loss or damage is caused to or by this product or by any other product gue to any incompatibilities between them or by defects or malfunctions in connection with the use of this product (even if the releasees are advised of the possibility of such loss).

WARNING: Indemnification

In consideration of SOCOM GEAR / MAX Tactical Corp. granting you the limited warranty set out hereinbelow, you agree to indemnify the releasees of any liability, damages, legal costs, fees, disbursements, expenses, or any other costs whatsoever, arising out of any claims, suits, or actions brought by a third party against the releasees or any of them in which the third party claims to have suffered any loss or damage that was caused by, contributed to, or related in any way to the use or misuse of this product.

WARNING: Limited Warranty

SOCOM GEAR / MAX Tactical warrants that this product is constructed using steel and Aluminum. This product is provided without an other warranty of any kind, either statutory, expressed or implied, including but not limited to, the implied warranties or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, title, non-infringement, or arising from a course of dealing, the releasees make no warranties or representations of any kind as to the fitness of this product for any particular purpose.

WARNING: Choice of Law

The laws of the province of Taiwan and the laws of Republic of China applicable therein shall govern as to the interpretation, validity and effect of this agreement notwithstanding any conflict of laws provisions of your domicile, residence or physical location. You consent and submit to the exclusive jurisdiction of the courts of the Province of Taiwan in any action or processing instituted under of related to this agreement, or to the alleged breach of contract, negligence, gross negligence, or breach of statutory or common law duty of the Releasees.

WAIVER AND RELEASE AGREEMENT

[Retailers, please ask your customers to sign it and keep as your recorder.]

I realize that there are dangers inherent in using Li-polymer battery, charging/ discharging the Li-polymer battery, using Airsoft AEG, and shooting the Airsoft AEG and related activities, and that mortal or serious personal injuries and property damage, including (but not limited to) physical effort, cuts, burns, inhalation of hazardous substances, and/or exposure to visible and invisible radiation, may occur from my participation in such activities.

I assume full responsibility for the risk of personal injury, death, and property damage due to the negligence and/or fault of the parties released by this document, and/or due to the condition of the premises on which the activities will take place, whether such negligence, fault, and/or condition of the premises is present at the signing of this agreement or takes place in the future.

On my own behalf and on behalf of my heirs, personal representatives, and assigns, I hereby release SOCOM GEAR, MAX Tactical Corp. , and all of their officers, directors, members, managers, partners, employees, and volunteers (collectively, "the parties released by this document") from all claims, demands, actions, rights of action, or other legal rights to claim compensation for any loss or injury which I may sustain as a result of their negligence or fault, or the condition of the premises, or any other cause whatsoever, whether loss or injury occurs while participating in, going to, or coming from such activity. However, this waiver and release does not apply to gross negligence or intentional torts by the parties released by this document.

Further, I agree to indemnify and hold all parties released by this document harmless from any such claims or demands.

I expressly agree that this waiver and release agreement is intended to be as broad and inclusive as permitted by the Laws of the United State and Republic of China (Taiwan) and of any other state wherein such activities may occur, and that if any portion hereof is held invalid, the remainder hereof shall continue in full force and effect.

This Agreement contains and embodies the entire agreement and understandings between the parties concerning the subject matter hereof.

YOUR SIGNATURE INDICATES THAT YOU HAVE READ AND AGREE TO THE ABOVE.

Signature: _____ Date: _____

Address: _____ Zip _____ Phone: _____

Print name: _____ Age: under 18 19-40 41-60 60+

Optional Email (Please!!): _____

If participant is under the age of 18, parent or guardian must sign as well.

Signature: _____ Date: _____

Print name: _____