

DATA SHEET

# PAG L90 Slim Battery

WHEN EVERY OUNCE COUNTS



NOW FEATURING A  
BRIGHTER DISPLAY  
AND A D-TAP OUTPUT

- Slim form factor and an ultra-compact, lightweight design
- Higher energy density than other full-size 90Wh V-Mount Li-Ion batteries
- High-current cells with a continuous 10A current-draw capability
- Designed to withstand the vibration of UAV-mounted applications
- The industry's first reorienting battery Run-Time, Capacity & Data Display
- Auto-compatible with camera data systems and viewfinder displays
- Independently UN tested, flight-friendly design

## DESCRIPTION

The PAG L90 Slim battery offers a slim form factor and a weight of only 567g. It has been designed for smaller digital cinema type cameras, especially when mounted to gimbals or aerial platforms.

The L90 Slim features high-current Li-Ion cells, that contribute to the battery's slim form-factor. It has a capacity of 90Wh, and a continuous current-draw capability of 10A, which gives it a higher energy density than most full-sized V-Mount Li-Ion batteries of equivalent capacity.

PAG-designed firmware is incorporated, making it an intelligent battery that manages its own charge and discharge safely. It can be charged using any reputable V-Mount Li-Ion charger. Reliability, durability and longevity are integral to the battery design, providing an unbeatable return on investment.

PAG has incorporated its own proven and tested electronic protection system, to ensure the highest possible level of safety. All PAG Li-Ion batteries are tested to UN standards by an independent authorised facility in order to meet air transport regulations. PAG is one of the only manufacturers that labels its batteries with the test report number. In addition to testing, a capacity below 100Wh ensures that the battery is flight-friendly and suitable for transport on passenger aircraft without quantity restriction.

An important consideration in the design of the cell-pack was ensuring that it could withstand the vibration caused when mounted to multi-rotor aerial platforms. PAG has incorporated spacers between the cells to prevent the negative affects of vibration.

Another unique feature is the orientation-sensing Run-Time, Capacity & Data Display, positioned on the side of the battery. The display characters rotate automatically according to the battery's orientation, to ensure legibility. Run-time is displayed to a resolution of 1 minute. Capacity is displayed in 1% increments. Data stored in the battery's microprocessor, such as the number of charge/discharge cycles, can be displayed when you enter data mode. The latest display version is more legible in bright sunlight.



*The PAG L90 Slim is designed for use on unmanned aerial vehicles.*

In keeping with the latest PAG-developed technology, the L90 communicates automatically with different camera data systems and displays its remaining capacity in the camera viewfinder and LCD.

The battery is future-proof to accommodate changes in charger and camera technology. Firmware can be updated easily in the field, via the contacts.

The battery case is manufactured from a high-impact, injection-moulded material which is inherently very strong. Additionally, the internal case design protects the cell-pack against damaging impact.

The battery features a multi-level electronic protection system which is fail-safe and guards against conditions that reduce battery life. The circuits are conformally-coated to protect them and ensure the operation of the safety systems in the event of damage to the battery.

## SPECIFICATION

### Model No. 9307V

**Capacity:** 90 Watt-hours, 6.1 Ampere-hours nominal.

**Cells:** Premium grade, high-capacity, high-current, rechargeable, sealed, Lithium-Ion.

**Battery Connector:** V-Mount

**Voltage:** 14.8V nominal. 8 cells connected in series/parallel (4S2P). Each cell has a nominal voltage of 3.7V.

**Output Current:** The rated maximum continuous output current is 10 Amperes.

**Output Connector:** 1 x D-Tap, 12V (unregulated).

**Charge Voltage:** 16.8V.

### Run-Time, Capacity & Data Display:

The battery incorporates a numeric display that senses the orientation of the battery and adjusts accordingly, for legibility.

The display shows a run-time prediction on-load to a resolution of 1 minute. Capacity/state-of-charge is displayed in 1% increments. The following data can also be displayed: voltage; temperature in degrees Celsius; the number of charge/discharge cycles and the software version. The data menu also incorporates a reset function.

**Construction:** High-impact injection mouldings designed to protect the cells from impact damage.

**Protection:** The battery incorporates a multi-layered electronic protection system that guards against over-current, over-

voltage, under-voltage, over-temperature and under-temperature. The protection system circuit is conformally-coated to protect it, and ensure operation of the safety systems in the event of damage to the battery.

### Temperature Range:

**Charging:** 0°C to +40°C (Optimum +10°C to +30°C).

**Discharging:** -20°C to +50°C (Optimum +5°C to +40°C).

**Storage:** +10°C to +30°C.

**Dimensions (L x W x D):** 140 x 85 x 35mm

**Weight:** 567g



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