Patria

Patria LDG Light

Modern LED landing light for NH90 Helicopter

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Patria LDG Light is a landing light solution, optimal for the NH90 helicopters' requirements. Designed to provide improved performance and maintainability to the original equipment manufacturer, the landing light is a single configuration solution with improved white light power and IR power, turn rate and reduced power consumption.

Patria's knowledge and competence has already been put to practice by providing Finland national maintenance capability for current legacy LDG lights. Patria has been able to deliver a turnaround time of 70 days per light compared to over 300 days that is a typical turnaround time for the legacy LDG light.

Patria aims to achieve an exclusive distributor position to modern landing light solutions by providing cost-effective, certified NH90 landing lights with superior performance for all NH90 operators globally.

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Patria LDG Light exceeds current NH90 operating and performance characteristics providing LED life of at least 10,000 hours. Patria LDG light is compliant with the FAR 29 Amdt. 31 certification specifications.

Key features

Due to the modern LED technology the Patria LDG Light dissipates less than 100 Celsius of heat and the maximum light intensity is reached instantly.

Operating voltage range
- VDC version: 22 – 32 VDC, nom 28 VDC
- VAC version: 105 - 130 VAC, nom 115 VAC / 400 Hz (3 phases)

Intensity
- White beam: >900 000cd
- IR beam: > 90 W/sr

Beam Angle
- White beam: 12º (@10% of max light intensity)
- IR beam: 20º (@10% of max light intensity)

28VDC LDG Light version current consumption*
- White light only: 10.3 A
- IR light only: 1.0 A

115VAC LDG Light version current consumption*
- 1.5 A (Current per phase)**

Weight
- VDC version: max. 5.9 kg / 13.01 lb
- VAC version: max. 7.4 kg / 16.31 lb

Qualifications
- Storage Temperature: -55ºC to +85ºC (-67ºF to +185ºF)
- Operating Temperature: -40°C to +50°C (-40°F to 122°F)
- Environmental qualifications per MIL-STD-810
- EMI/EMC qualification per MIL-STD-461
- Power interface qualification per MIL-STD-704

More details on qualification is available upon request.

* Steering mechanism deployment increases instantaneous current consumption, depending on the aerodynamical force applied during operation.

** In static conditions, e.g. on ground, the thermal protection circuitry will automatically reduce the current in white light mode to prevent the housing temperature from exceeding 75 Celsius.

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When if is not an option.

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