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TECHNICAL DATASHEET · HELIPORT LIGHTING · BATTERY AND SOLAR PORTABLE LIGHTS

Polaris V2 – Solar Portable Heliport Lights

EcoSolaris code **ECO-AL-2973**

Ordering code **AL-083/150/161/175-01-XX**

Made in Romania Manufactured in the EU



Portable LED lights for the TLOF perimeter, FATO, approach and taxi routes, powered by a NiMH battery with solar charging. They are deployed quickly by non-specialist staff and operate in harsh environmental conditions.

APPROACH
AL-150-01-WH – 350 cd

TLOF
AL-161-01-GR – 30 cd

FATO / AIMING POINT
AL-175-01-WH – 100 cd

TAXI
AL-083-01-BL – 2 cd

Price on request

EcoSolaris technical support · Dubai

Technical specifications

Approach	AL-150-01-WH – 350 cd
TLOF	AL-161-01-GR – 30 cd
FATO / aiming point	AL-175-01-WH – 100 cd
Taxi	AL-083-01-BL – 2 cd
Horizontal output	360°
Brightness steps	1%, 3%, 10%, 30%, 100%
AL-150 measured at 5° / 6°	367.1 cd / 378.6 cd (min. 350 cd)
AL-175 measured at 3° / 10°	241.2 cd / 259.7 cd (min. 100 cd)
Battery	NiMH 12 V – 2.7 Ah
Max. power at 100%	8.5 W / 4 W / 0.5 W (approach / FATO / TLOF)
Autonomy at 100%	3.8 h / 8 h / 60 h
Autonomy at 10%	38 h / 80 h / 600 h
Solar panel	10 W
Charging time	15 h (1/6/10-lamp charger / rack)
Radio	LoRa 868 / 915 MHz, optional 433 MHz; up to 10 km
Ingress protection	IP67
Temperature	-55 °C … +55 °C
Humidity	0–100%
LED lifetime	100,000 h

Features

- Steady light with five brightness steps
- Local control, LoRa remote or Polaris application with base station
- Photocell mode – night-only operation (optional)
- ARCAL pilot activation (optional)
- Battery disconnect for storage, zero consumption
- Fast deployment by non-skilled operators
- Optional IR LEDs (NVG)

Standards and compliance

- ICAO Annex 14, Vol. 2 – Heliports
- ICAO Annex 14, Vol. 1, Fig. A1-1b – colours
- IEC TS 61827

Materials and construction

- Powder-coated aluminium housing, RAL 1004
- Glass diffuser
- Nickel-plated brass cable gland
- Stainless steel fasteners

Configuration options

- Photocell
- LoRa radio control 868 / 915 / 433 MHz
- ARCAL activation
- IR LEDs
- Base plate, tripod or solar panel stand mounting

Ordering code structure

AL - 150 - 01 - WH

AL	Airfield lighting series
150	Product indicator (150 approach; 161 TLOF; 175 FATO; 083 taxi)
01	Number of LEDs
WH	Colour: WH white, GR green, BL blue

Applications

Hospital helipads · **Rooftop helipads** · **Temporary and emergency helipads** · **Offshore platforms and oil & gas sites** · **Military operations**