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TECHNICAL DATASHEET · AIRPORT & HELIPORT PORTABLE LIGHTING · OMNIDIRECTIONAL EMERGENCY LIGHT

Polaris V1 Emergency RGBW

EcoSolaris code **ECO-AL-2902** | Ordering code **AL-152-01-RGBW** | **Made in Romania** Manufactured in the EU



Battery-powered portable emergency light with a single RGBW LED emitting red, blue, green or white. It temporarily replaces failed lights in the main system: runway end, taxiway, threshold, TLOF, FATO or runway edge.

PRODUCT CODE
AL-152-01-RGBW

LIGHT SOURCE
1 high-power RGBW LED, 100 000 h lifespan

RED – UNSERVICEABILITY, END, STOP
10 cd omnidirectional

BLUE – TAXIWAY
2 cd omnidirectional

Price on request | **EcoSolaris technical support · Dubai**

Technical specifications

Product code	AL-152-01-RGBW
Light source	1 high-power RGBW LED, 100 000 h lifespan
Red – unserviceability, END, STOP	10 cd omnidirectional
Blue – taxiway	2 cd omnidirectional
Green – TLOF or threshold	50 cd omnidirectional
White – FATO or runway edge	100 cd
Power consumption	1 W red; 0.3 W blue; 1.5 W green and white
Battery	rechargeable lead-acid 12 V – 12 Ah (approx. 144 Wh)
Autonomy (new battery, 20 °C)	approx. 144 h red; 480 h blue; 95 h green/white
Deep-discharge protection	automatic disconnection below 10.2 V
Operating temperature	-55° to +55°
Degree of protection	IP68
Humidity	0–100%
Width / total height	236.5 mm / 245 mm
Weight	5.9 kg

Features

- Single RGBW LED: four aeronautical colours in one light
- Omnidirectional light, visible through 360°
- Photocell mode for every colour: the light switches on automatically at night only
- 4-LED battery charge indicator (0–25% ... 75–100%)
- Battery disconnection for transport and storage with zero drain
- Optional infrared (IR) LEDs
- Optional radio control and built-in or external solar charging

Standards and compliance

- ICAO Annex 14, Volume I – Aerodromes
- IEC TS 61827 – electrical installations for lighting and beaconing of aerodromes; characteristics of inset and elevated luminaires for aerodromes and heliports

Materials and construction

- Housing: powder-coated aluminium, RAL 1004 (aviation yellow)
- Disperser: polycarbonate
- Cable gland: nickel-plated brass
- Fasteners: stainless steel
- Anti-condensation valve fitted

Configuration options

- Infrared (IR) LEDs
- Radio control with handheld remote
- Built-in or external solar panel
- Mounting directly on the ground, on a frangible support, or on a frangible support with solar panel

Ordering code structure

`AL - 152 - 01 - RGBW`

AL	Series indicator (airfield lighting)
152	Product indicator – RGBW emergency light
01	Number of LEDs
RGBW	LED colour: red, green, blue, white

Compatible accessories

AL-123-AX	Polaris solar panel stand
AL-124-AX	Polaris base plate
AL-125-AX	Drop-in charger
AL-126-XX-AX	Drop-in rack
AL-141-AX	Polaris photovoltaic panel
AL-165-EM-AX	Polaris remote control (RGBW version)
AL-199-XX-AX	Charger for Polaris
AL-181-AX	Spare 12 V battery
AL-177-AX	Polycarbonate disperser (spare part)
AL-101-AX	Frangible coupling
AL-102-AX	Base plate

Applications

Emergency and back-up lighting when the fixed system fails · **Temporary replacement of threshold, runway end and edge lights** · **Marking taxiways and unserviceable areas** · **Heliports: TLOF and FATO**