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TECHNICAL DATASHEET · OBSTRUCTION LIGHTING · PHOTOVOLTAIC POWER SUPPLY

Solar Power System

EcoSolaris code **ECO-AL-2279** | Ordering code **AL-152-AX** | **Made in Romania** Manufactured in the EU



Photovoltaic system powering one or more obstruction lights where mains supply is difficult or impossible. The battery, charger and control unit are mounted in a rugged metal enclosure.

CODE **AL-OBS-XX-XXX (AL-152-AX)**	OPERATING VOLTAGE **12 / 24 / 48 V DC**
PANEL POWER **30–200 W**	BATTERY **30–200 Ah (not included for transport)**

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

Technical specifications

Code	AL-OBS-XX-XXX (AL-152-AX)
Operating voltage	12 / 24 / 48 V DC
Panel power	30–200 W
Battery	30–200 Ah (not included for transport)
Configuration 004	0.4 kWh, 12 V, 30 Ah
Configuration 015	1.5 kWh, 24 V, 60 Ah
Configuration 096	9.6 kWh, 48 V, 200 Ah
Controller	standard or MPPT
Cells	mono- or polycrystalline silicon
Enclosure	powder-coated metal, IP54
Ingress protection	IP65
Temperature	-40 °C … +55 °C (+80 °C on panel)
Panel tilt	0°–45°
Mounting	Φ30–80 mm pipe
Max. dimensions	715 mm / 425 mm × 650 mm
Total weight	24 kg

Features

- Automatic beacon switch-on at night
- Temperature-compensated overcharge protection
- Optional MPPT controller for higher efficiency
- Panel resists hail, snow, ice and storms
- Sliding system for 0°–45° panel tilt

Materials and construction

- Powder-coated metal enclosure
- Mono- or polycrystalline silicon PV cells

Configuration options

- 12, 24 or 48 V DC
- 30–200 W panel
- 30–200 Ah battery
- Standard or MPPT controller

Ordering code structure

AL - OBS - XX - XXX

AL	Airfield lighting series
OBS	Category: obstruction lighting
12 / 24 / 48	Operating voltage, V
004	0.4 kWh, 12 V, 30 Ah battery
015	1.5 kWh, 24 V, 60 Ah battery
096	9.6 kWh, 48 V, 200 Ah battery; other ratings on request

Compatible accessories

AL-173-AX	Tripod

Applications

Towers below 45 m – low-intensity lights (e.g. 30 W panel, 12 V – 40 Ah battery)

Towers above 45 m – red medium intensity (e.g. 120 W panel, 12 V – 130 Ah battery)

Off-grid antennas, masts and chimneys

Remote helipads and obstacles