



SLU-24 / SLU-36

LED light source to replace traditional lamp inside historical lighthouses

Sabik Lighthouse Unit (SLU-24 / SLU-36) is a reliable and efficient solid-state light source to replace traditional lamps in rotating or fixed classical lighthouse optics. It extends the service life of traditional lighthouses without expensive and complicated re-work or decommissioning activities. The product also offers many other additional benefits, such as the option for remote monitoring, lower maintenance costs and the possibility to utilize solar or other renewable power sources. All of this, while maintaining the traditional look, existing optics, rotating beam, flash characteristics, and heritage value of traditional lighthouses.

- Rugged copper/aluminium body with special emphasis on heat management to ensure LED longevity
- Range up to 24 NM at $T_c = 0,74$
- Colors cool white and warm white
- Extremely low power consumption, suitable for solar and battery operation
- Integrated 16A solar panel charger using pulse width modulation
- Integrated flasher with automatic day-night switch
- Adjustable intensity and range
- Programmable with Sabik standard IR programming devices
- Integrated event log for 365 days
- Optional integrated GSM Remote monitoring



Electrical Specification SLU-24 / SLU-36

Nominal voltage	24 VDC
Input voltage range	20 to 30 VDC
Reverse polarity protection	Yes
Current consumption at peak intensity	max 4.6 A (SLU-24) / 6.9 A (SLU-36)
Current by day	< 5 mA
LED over current protection	Yes
Battery cut off voltage	Programmable

Output characteristics

Color	Cool white (5000K - 6000K)	Warm white (2700K - 3000K)
Power consumption at peak intensity (W)	110W (SLU-24) / 165W (SLU-36)	110W (SLU-24) / 165W (SLU-36)
Power consumption at max avg. intensity (W)	65W (SLU-24) / 100W (SLU-36)	65W (SLU-24) / 100W (SLU-36)
Flash characteristic control	246 standard characters plus custom character	

Mechanical withstand and protection

Ingress protection	Equivalent to IP 10
Ambient temperature range	-30°C to +50°C

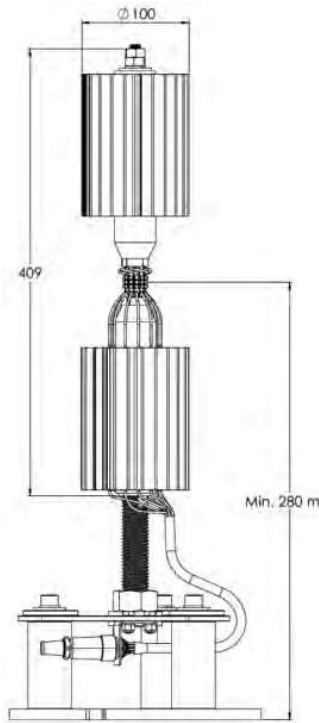
Other

Designed service life	>10 years
Maintenance	Only periodic cleaning of external surfaces required
Day / night transition	Programmable, default turn on at 15 lux / turn off at 60 lux

Standards

EMI/EMC	EN 55015:2006 +A1:2007, +A2:2009 radiated and conducted emissions
	EN 61000-4-2:2008, Electrostatic Discharge Immunity
	EN 61000-4-3:2006/AMD2:2010, Electromagnetic Compatibility
	EN 61000-4-5:2005 Class 3 Surge Immunity
	FCC 47 CFR Section 15 Class A
Colour	EN 61000-4-5:1995 Class 3 Surge Immunity
	IALA Recommendation E-200-1 "Marine Signal Lights - Colours" Edition 3 (December 2018)
Quality assurance	ISO 9001, ISO 14001, FAT upon request

- Will be customized to meet project specific needs
- Sabik team will support you from project definition to commissioning and operation as needed



SIDE VIEW
Weight approx 7 kg

