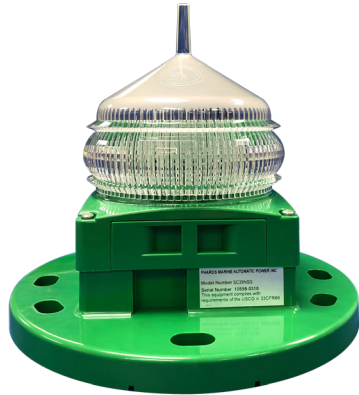




PMAPI-NS35 PIER LIGHT

LED Marine Lantern

3.5 - 7.8 NM at 0.74T



OVERVIEW

The PMAPI-SC36-AIS is a 3 - 6.3NM weather-protected marine lantern with a high intensity LED light source paired with solar panel, battery array and AIS Aid to Navigation (AtoN) transceiver.

KEY FEATURES

- Rugged, weather-resistant construction materials: High impact resistant polycarbonate for ice, ultraviolet exposure, salt air and seawater spray at a wide range of ambient temperatures
- High intensity, energy efficient fan beam LED array: Maximum visible range up to 7.8NM at 0.85T pending flash character in optimal conditions
- IR Remote: Powering on & off, set / retrieve configuration parameters such as flash pattern, effective intensity, day/night control, etc.
- IALA approved colors: Single color LED engine - white, yellow, red or green
- Integrated bird deterrent: No additional accessories required
- Longevity - Estimated average service life of 10 years

PERFORMANCE FEATURES

- Intensity control: Effective lantern intensity set on Schmidt-Clausen method
- Flash character control: 256 programmable flash characters and 2 custom flash characters
- Day/Night transition level settings: Programmable for active at all times or only after sunset. Day / Night level settings (sunset / sunrise transition) can be field programmed
- Calendar control - Programmable season on/off date
- Input protection - Lantern power input is reversed polarity protected for field repair
- Ripple delay - 0.05 to 12.7 seconds & master/slave sync options
- Storage mode - Automatic storage mode with adjustable automatic wake up
- Programmable sleep and test modes
- Dynamic compensation circuitry for the candles low output, based on internal temperature, LED flash duration and LED color, to always keep the same programmed output intensity

OPTIONAL FEATURES

- GPS Synchronization: Optional internally mounted hardware will allow the lantern to flash in-sync with other PMAPI and third party lanterns that are GPS synced
- External I/O port: Allows connection to an external monitoring device or for hardwired synchronization to other lanterns

PHYSICAL SPECIFICATIONS

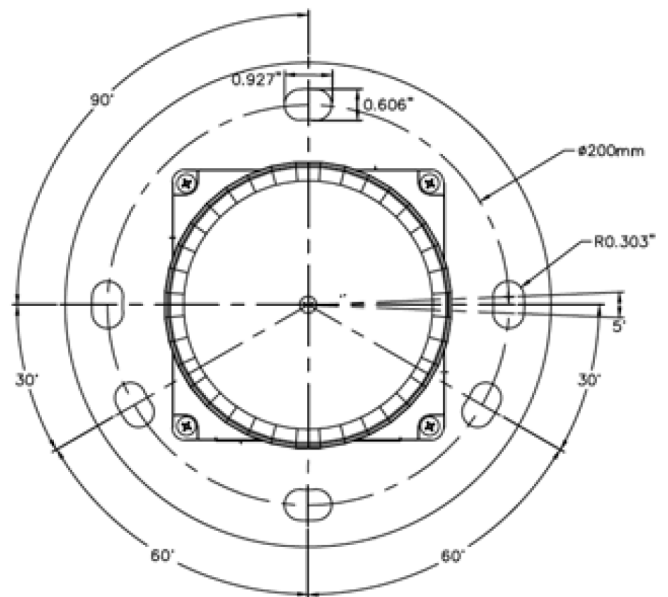
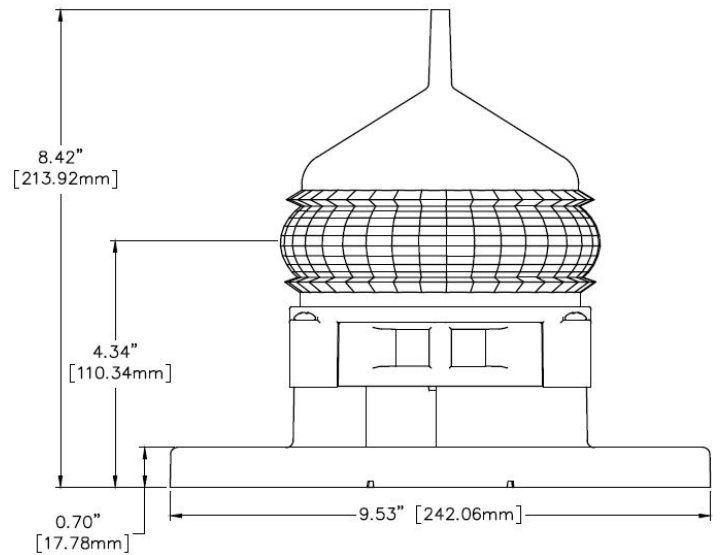
Operating temperature range (°C)	-30°C to +50°C
Operation humidity (%)	100
IP Rating	IP68*
Body material	UV stabilized polycarbonate
Lens material	Acrylic
Mounting	3 - 4 hole, Ø 200mm

DIMENSIONS

Width (mm / in)	242mm / 9.53"
Depth (mm / in)	242mm / 9.53"
Height (mm / in)	214 mm / 8.42 in
Height (mm / in)	1.18 kg / 2.6 lb

STANDARDS

EMI/EMC	EN55015:2013 radiated and conducted emissions* EN61547:2009 Immunity FCC 47 CFR Section 15 Class A*
Optical Test	IALA Recommendation E-122 (2001) and E-200-3 Part 3 (2008)
Colour	IALA Recommendation E-200-1 Part 1
Daylight	IALA Recommendation 1038
Power Supply	IEC60945 Section 7 normal and peak voltage, and reverse polarity protection
Ingress	IP68 to IEC60529
Shock	MIL-STD-202G Method 213B Cond. H*
Vibration	MIL-STD-202G Method 204D Cond. B*
Immersion	MIL-STD-202G Method 104A Cond. B withstands immersion to 1m depth*
Ice	Standard



OPTICAL SPECIFICATIONS

LED COLOR	WHITE	YELLOW	RED	GREEN
Light source	12 White LEDs	12 White LEDs	12 White LEDs	12 White LEDs
Visible range (NM) ¹	3 - 6.3	3 - 6.3	3 - 6.3	3 - 6.3
Effective intensity range (cd) ²	10 - 180 ³	10 - 180 ³	10 - 180 ³	10 - 180 ³
Horizontal divergence	360°	360°	360°	360°
Vertical divergence at 50% intensity	± 3.5°	± 3.5°	± 3.5°	± 3.5°
Peak intensity (cd)F	325	325	325	325

¹ Visible range based on IALA standards at atmospheric transmissivity of 0.74

² Effective intensity computed from Blondel Rey method

³ Maximum Effective Intensity limited by ambient temperature and flash length. See PHAROS-SC35 Standby Calculator for expected performance.

*All values are subject to change without notice.

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