



MODEL

M704-5

Solar-Powered LED Marine Lanterns



Carmanah's Model M704-5 is a self-contained solar LED marine lantern, trusted by the world's largest maritime authorities. The Model M704-5 features up to 5 nautical miles visibility and optional GPS capability.

LIGHT OUTPUT AND OPERATION

Visibility ^{1,2}	4 to 5 NM (7.4 to 8.5 km)
Peak intensity (360° average, green LEDs)	93 Candela
Peak intensity (as per IALA rating)	83 Candela
Ambient storage temperature	-40 to 176 °F (-40 to 80 °C)
Ambient operating temperature	-22 to 122 °F (-30 to 50 °C)
Vertical divergence	10°
Vibration tested	As per USCG 502G CH3, Section 4.4.6, MIL-STD-202G Method 204D ³
Shock tested	As per USCG 502G CH3, Section 4.4.5, MIL-STD-202G Method 213B ⁴
ESD tested	As per USCG 502G CH3, Section 3.5.9, +/- 25 kV air discharge ⁵
Autonomy ⁶ (flashing) at full charge	600 hours
Available LED color	Red, green, amber, or white
Flash patterns	256+
Programmable (infrared)	Yes
GPS capable	Yes (Optional)

CONSTRUCTION

Light source	High-powered LEDs
Lens material	UV stabilized
Battery	Replaceable and recyclable
Energy Management System MICROSOURCE [®] code suite	Yes
Mounting options	3, 4, or 5 bolt
Weight	26 lb (11.75 kg)

PATENTS AND APPROVALS

CE approval	As per EN 60945:1997
IP68 waterproof rating	Yes
Patents	US Patents: 6573659, 6013985 Other Patents Pending



Clients

- Australian Maritime Systems
- Brazilian Naval Commission
- Canadian Coast Guard
- CETMEF, France
- Port of Kandla, India
- Maritime and Port Authority of Singapore
- NOAA - National Data Buoy Center
- Panama Canal
- Suez Canal, Egypt
- Trinity House Lighthouse Service, UK
- United States Coast Guard
- Vancouver Port Authority

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