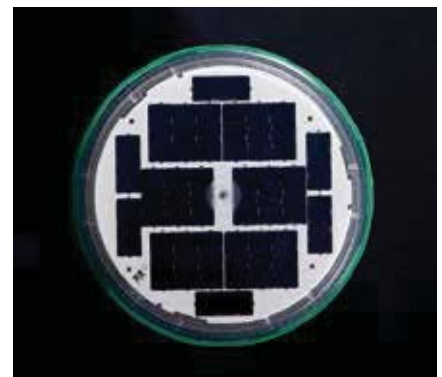


M650H

Self-contained LED lantern
for buoys and minor beacons,
2 to 4+ NM Range

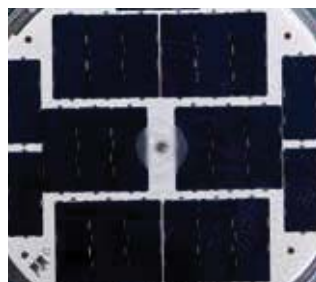
The M650H is a cost effective, self-contained, high-performance, low-maintenance and easy-to-install solar LED marine lantern. The M650H features a replaceable battery pack that extends the service life beyond five years, reducing the total cost of ownership. Applications include: marine aids-to-navigation marking, marina lighting, dock lighting, and port lighting. To view performance in your installation location, visit www.carmanahmarine.com/selector.

- Standard IALA colours Red, Green, White, Yellow, Blue
- High-efficiency solar cells with bypass and blocking diode function. Maximum power point tracking (MPPT) for optimal energy collection
- Premium grade UV resistant, polycarbonate/polysiloxane co-polymer body and lens material
- Colour-specific temperature corrected LED drivers provide consistent intensity under all operating conditions
- IP 68 rated. Double O-ring sealing with waterproof vent
- SLA battery
- Ventilated battery compartment
- Adjustable intensity and range
- Vertical divergence > 8° (FWHM)
- Programmable with On-Board User Interface, USB port, or optional wireless IR-Programmer
- Integrated event-log
- Optional ON/OFF switch
- Optional external charger
- Optionally integrated GPS synchronization





Bird Deterrent
Stainless steel as standard.
Tool-less installation and replacement.



Solar Modules
High-efficiency cells with bypass and blocking diode function.
Maximum power point tracking (MPPT) for optimal energy collection.



SLA Battery
Tool-less replaceable and recyclable best-in-class battery pack with extreme temperature range and 5-year life expectancy.
On-board battery status feedback of Good, Charge, Low or Replace.
True battery voltage shown.



Colour Indicator
Protective bumper indicates LED colour.



On-Board User Interface
Configure lantern parameters and features and access status reports.



650 Device Manager Software
Connect Windows based PC via USB port to configure parameters, view detailed information about the lantern, change transition settings, change passcodes, and update firmware. Multi-level access for advanced features.



IR Controller
Check battery status, change flash code, set ship mode and turn lantern off with optional IR (Infrared) controller.



Installation
Supports installation on structure using 3 x M6 bolts on a 150 mm diameter.



Bottom Cover Removal Tool
Available as accessory.



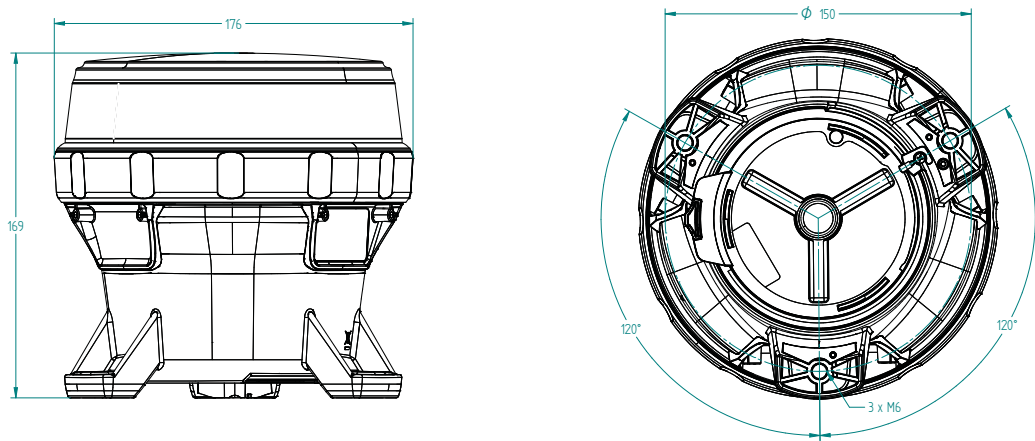
Barge Application
For barge application, sector plates with open sectors of 112.5°, 135° and 225°.

SELF-CONTAINED

REPRESENTED BY:

MJR Corporations_____,
Office No: 321, The Commodity Exchange,
Sector 19, Vashi, Navi Mumbai 400703
Mob: +91 98201 36798 / 981907 8896;
Email: mjrcorpn@gmail.com; info@mjrcorpn.com
Website: www.mjrcorpn.com

Technical Specification M650H



Optical performance

Maximum fixed intensity				
31 cd	45 cd	60 cd	52 cd	15 cd

NOTE: Peak IALA intensity dependent on location. To view performance in your installation location, visit www.carmanahmarine.com/selector.

Main Technical Specification

Lens visual/Mechanical diameter	165 mm
Lens material	UV stabilized Polycarbonate
Light source	High Power Light Emitting Diode (LED)
Vertical divergence	>8° (FWHM)
Solar module	High efficiency cells; bypass and blocking diodes; MPPT
Battery	Sealed Lead Acid
Degree of ingress protection	IP 68
Weight	1.58 kg
Overall height	169 mm
Overall width	176 mm dia.
Installation	3 x M6 on 150 mm dia.

REPRESENTED BY:

MJR Corporations_____,
Office No: 321, The Commodity Exchange,
Sector 19, Vashi, Navi Mumbai 400703
Tel: + 91 (22) 65113669/65114150,
Mob: +91-22-98201 36798 / 9819078896;
Email: mjrcorpn@vsnl.net ; solar@mjrcorpn.com
Website: www.mjrcorpn.com