OctoLite®
CONTROL & MONITORING SYSTEM

DISTRIBUTED POWER
CONTROL AND MONITORING

OCTOLITE SYSTEM OVERVIEW

MANUFACTURED BY CARLING TECHNOLOGIES

System Diagram

MULTI-FUNCTION DISPLAY

VMM-SERIES

CKM-SERIES

CBM-SERIES

CLM-SERIES

Manual Bypass:
12 Outputs

To perform a manual bypass, remove the load cable from the CLM-Series and plug it into the CB-Series. The 12 rocker switches can be accessed by lifting the CB-Series cover.

12 Outputs

- 2 High Side Outputs
  15 Amps each (A3660)
  12 Amps each (A3670)
- 6 High Side Outputs
  10 Amps each
- 4 High Side Outputs
  5 Amps each

7 Inputs
(Discrete)

- Active High,
- Active Low

Remotely controlled
AC Distributed Power Unit (if required)

Distributed Power Control and Monitoring System

SMARTER • SAFER • SIMPLIFIED Solution for Increased Performance

The OctoLite® distributed power control and monitoring system puts the user in control while providing greater safety and reliability in an easy to operate system. This flexible-to-configure system includes devices such as multi-function touchscreen display, configurable keypad, multiplex switch module, solid-state power controller, bypass module, and AC distributed power module. Together, these devices provide:

- Easy installation and reduced wiring complexity
- Intuitive and easy to use HMI modules
- Extensive load monitoring capabilities
- Remotely controlled AC distributed power unit
- Bypass module for manual control of the critical loads

Additionally, the OctoLite system is NMEA2000 certified, and it can interface with the Carling Technologies version of N2KView® software* with remote monitoring capabilities for ease of use and any-time accessibility to the system status.

Multi-Function Display

The 8” touchscreen display allows the user to control and monitor the OctoLite® system and other various functions. It provides interface with NMEA2000® CAN Bus, one Ethernet port and two USB ports for software upgrades. The power input range on this unit is 10 to 32 VDC.

*The OctoLite System can also be used in conjunction with Garmin’s® OneHelm™ GPSMAP® 8400/8600 MFD

Model # A3419

CKM-Series

The CKM-Series is a customizable keypad featuring laser etched legends and dimmable LED function lights for each button. The LEDs also provide diagnostics when fault conditions are detected.

With the rugged mechanical packaging (IP69), the CKM-Series can be installed inside or outside the cabin. The low-profile design offers a seamless dashboard look and it can be mounted either vertically or horizontally.

The CKM-Series offers significant advantages over traditional electromechanical switches such as longer actuation cycle (1,000,000), reduced wiring harness and reduced installation time.

Model # CKM12

VMM-Series

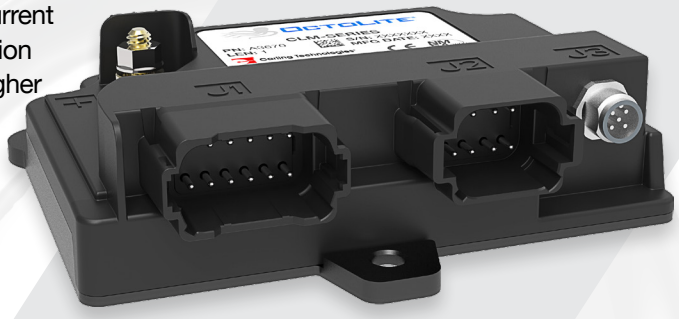
The VMM-Series is a sealed, multiplexed switch module featuring The Carling V-Series Contura® rocker switches in 14 different styles. The VMM-Series reduces the complexity and cost of traditional wiring harnesses, increases product life and reliability, and reduces installation time.

Model # VMM6

See datasheets for complete technical details

CLM-Series

The CLM-Series is a 12 output, solid state power controller. It provides fast switching with low loss solid state On/Off functions, accurate current measurement, short circuit protection and Pulse-Width Modulation (PWM) function. The outputs can be connected in parallel for higher current capacity. It also provides interface with up to 7 discrete inputs. The discrete inputs can be configured as an active-high or active-low logic. The maximum current capacity of this unit is 75 Amps. Relative to electromechanical relays, the CLM-Series can increase thermal efficiency by providing lower power dissipation and providing higher power-to-weight densities. The CLM-Series provides improved safety and reliability while reducing vessels down time, operator's work load, overall vessel weight and wiring complexity.

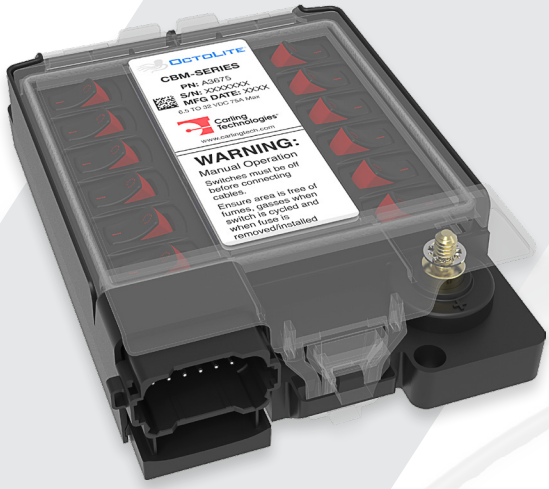


Model # CLMM12 –Molex® Connector
Model # CLMD12 - DEUTSCH Connector

CBM-Series

When used in conjunction with the CLM-Series, the bypass module provides manual control of the loads in case of system failures. It utilizes standard fuses for overcurrent protection and 12 Carling Curvette® rocker switches for manual control of each load.

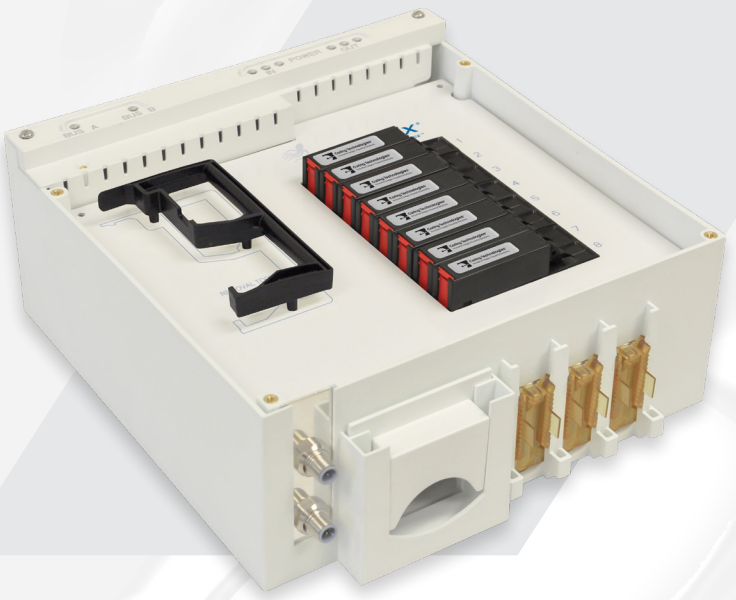
The maximum current capacity for CLM-Series is 75 Amps in 12VDC and 24VDC power systems. This unit is available with either Molex® or DEUTSCH connectors for installation flexibility.



Model # CBMM12 –Molex® Connector
Model # CBMD12 - DEUTSCH Connector

AC Power Distribution Unit

The AC Power Distribution Unit provides up to 8 remotely controlled hydraulic magnetic circuit breakers that can be mounted virtually anywhere in the vessel. AC circuit breakers are available from 1 to 50 amps. The AC unit provides remotely controlled ON/OFF/RESET functions via NMEA2000® CAN bus. Each breaker can also be manually actuated. The maximum current capacity of this unit is 50 Amps.



Model #: A3000-8-xx

See datasheets for complete technical details

Carling Technologies®
Innovative Designs. Powerful Solutions.

OCTOLITE®
CONTROL & MONITORING SYSTEM

THE OCTOLITE SYSTEM

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