

#### OPTIMUS EPS 5000 SERIES

## Performance Yachts 75 Feet & Larger

#### APPLICATIONS

Electronic Power Steering (EPS) system suitable for vessels from 75 ft & larger\* with dual rudders.



H1512 Electronic Helm ront mount 3/4 taper shaft sh other options inc. 1" straight

# Subject to submission of survey form and rudder load calculation.

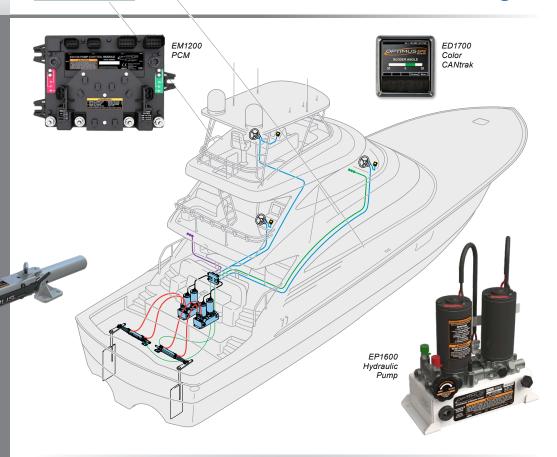
Steering Cy

### Environmental

- Operating temperature: -18°C to +77°C [ISO 25197]
- Storage temperature: -40°C to +85°C [ISO 25197]
- salt spay [ASTM B117]
- Water ingress protection: IPX7 [IEC 60529]
- · Random vibration: 0.0284 g^2/Hz [ABYC P-27]
- · Resonant vibration: 4 G zeropeak, 20-2000 Hz [ABYC P-27]
- Mechanical shock: 50 G, 11 m-sec half-sine shape [ISO 25197]
- Ignition protection: SAEJ-1171
- Meets EN60945 electromagnetic compatibility requirement

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## **FEATURES**

- · Up to three helm stations
- Helm offers both 3/4" taper or 1" straight shaft options
- · Automatic battery management with sensing, warnings and best battery selection
- On-demand hydraulic steering pump minimizing power consumption
- No oil at the helm
- Rugged electronics for 24 VDC applications
- · Color dash display indicates rudder command, rudder position, and system status
- · Display communicates system faults and vessel handling instructions
- Most installations do not require a tiebar
- Simple software updating via USB port
- · Helm effort and turns lock to lock are programmable and speed-sensitive

- · Redundant position sensing on all moving components
- Utilizes fault-tolerant CAN network
- Full autopilot CANbus connectivity and integration. No additional pumps or sensors required
- Maximum rudder angle can be reduced as speed increases
- Speed-sensitive rudder toe in/out, up to 5°
- Proportional rudder gain parameter enables faster steering response near neutral rudder position
- RPM input: NMEA 2000, J1939 or analog pulse compatible
- · Pump features an integrated service/bypass valve, which allows a limp home mode
- Meets or exceeds ABYC, ISO and SAE electrical and environmental requirements
- Optional manual backup steering kit available

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5000 SERIES

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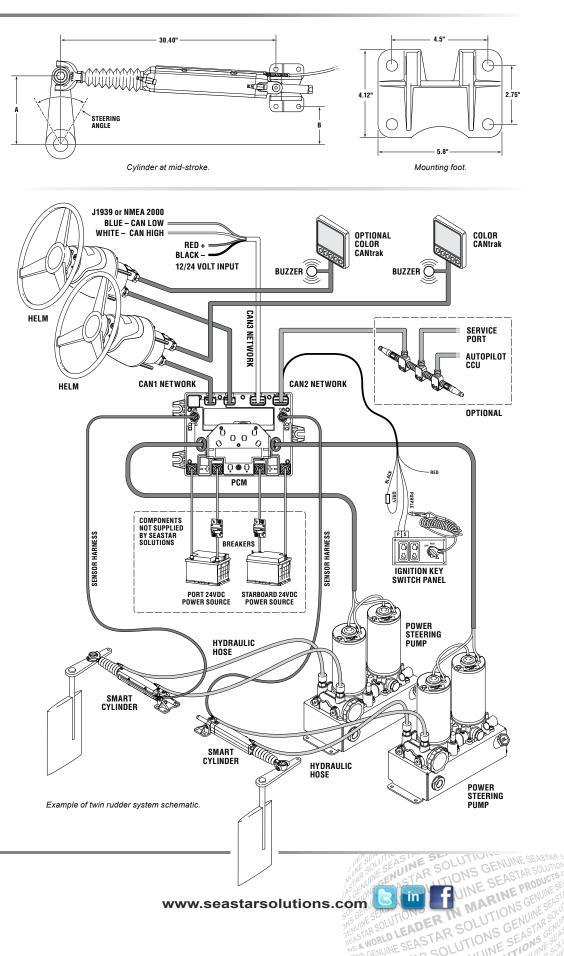
#### MOUNTING **CONFIGURATIONS &** SYSTEM SCHEMATIC

While using the table below be sure that your steering cylinder is at mid-stroke as shown in the figure right to ensure the cylinder operates correctly.

Model EC5850					
STEERING ANGLES					
50°		60°			
A	В	Α	В		
14.20"	10.62"	12.00"	8.14"		
70,800 in-lbs*		57,200 in-lbs*			

STEERING ANGLES				
70°		80°		
A	В	Α	В	
10.46"	6.32"	9.33"	4.90"	
47,100 in-lbs*		39,300 in-lbs*		

Example: two cylinders at 60° steering angle will give a combined total of 114,400 in-lbs of torque.



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