drs

Dynamic Marine Systems

Ahead in stabilisation



270°

225

240

255°

315°

300°

285°

TECHNICAL SPECIFICATIONS & DIMENSIONS - ARG 50T & 65T



Download Video Brochure

Email: stabilisers@dmssalesuk.com Office: 0044 (0)2380 970 970 • Mobile: 0044 (0)7740 100 870 Web: www.dmssalesuk.com The ARG Gyro Range we represent is markedly different to most other gyros, it is simple to operate, easy to service and exceptionally robust.

A few key points about ARG Gyros are:

- 5 Years Extended Warranty
- Air Cooling
- Natural Precession Control
- Reliable, Robust & Uncomplicated
- No Complicated Hydraulics or Electrics
- No Vacuum Chamber
- No Water Cooling or Hull Openings
- Exceptionally Simple Operation
- Large 180 Degree Gimbal Angle
- Low Maintenance & Ultra-Life Bearings
- No Need to Remove for Servicing
- Exceptional Big Sea Performance
- Extremely Competitive Pricing

DMS Anti Rolling Gyro

ARG 50T (12 VDC) For Vessels Under 10 Tonnes



DMS Anti Rolling Gyro

* Note: Selection of correct gyro unit can only be made following performance prediction from DMS/Gyro Manufacturer.

Anti Rolling Gyro Model:MSM-5000T-A1

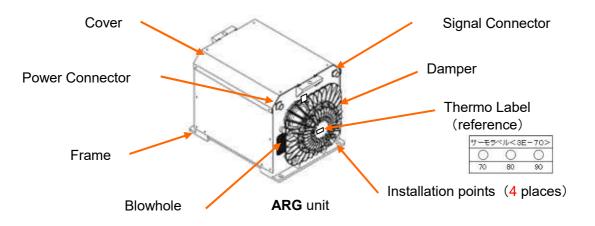
ARG 50T 12V - GENERAL INFORMATION:

Item	Specifications	
Name	ARG50T	
Model	MSM-5000T-A1	
Dimensions	525 mm (height) x 741 mm (width) x 536 mm (depth) 20.7 inches (height) x 29.2 inches(width) x 21.1 inches (depth)	
Weight	Approx. 234 kg / 515 lbs	
Power supply	DC 12V(10.5~16V) [SP-1500-212,MAA-2000/4000A-A200]	
Ambient temperature	-10 to 40°C	
Power consumption * ¹⁾	Approx. 1 kW(Max) 0.7 kW(Max) (Steady-state)	
Anti-Rolling Torque	Approx. 5,000 Nm (Max)	
Angular momentum	Approx. 1,000 Nms	
Rotational speed	Approx. 3,200 rpm	
Noise *2)	70 dBA maximum	
Vibration * ²⁾	1 m/s ² maximum	
Performance	 The ARG suppresses rolling motion of the ship. The ARG applies a principle that the Gyro torque (force) is generated by inclination of the flywheel rotating at high speed. The ARG stops automatically in abnormal conditions (excessive load, abnormal temperature, etc.). 	
Others	Start up duration to the rated speed: Approx. 30 minutes To stop the operation completely from the steady state: Approx. 60 minutes.	

*1) Power consumption varies with the customer generator.

*2) Measurement as per TOHMEI's specification.

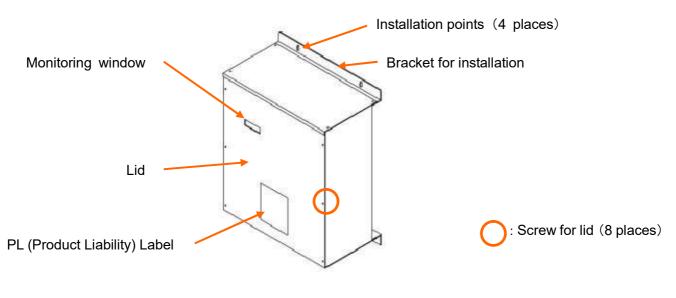
The measurements data depend on measurements conditions (installation place, measurements method, etc.).



Anti Rolling Gyro Model:MSM-5000T-A1

ltem	Specifications	
Model	MAA-25000B-A200	
Dimensions	180 mm (height) x 400 mm (width) x 350 mm (depth) 7.09 inches (height) x 15.7 inches (width) x 13.7 inches (depth)	
Weight	Approx. 15 kg / 33.6 lbs	
Control method	Inverter control	
Ambient temperature	-10 to 40°C	
Humidity	5 to 95% (with no condensation)	
Pollution Degree	Do not be exposed to dust, direct sunlight, corrosive or flammable gases, oil mist, vapor or water drops. (Pollution Degree 2 (IEC60664-1))	
Power supply	Single-phase 210 to 240VAC 50/60Hz Convert the power from the 12V DC battery into AC by the Power Inverter (SP - 1500 - 212).	
Options (outer connecting terminal) (Please prepare by customer)	 Remote switch: connect to the Motor Driver to remote control the ARG operation (ON/OFF). The ARG can be switched on /off by this remote switch. Start check lamp: connect to the Motor Driver to make sure the ARG is in operation or not. Rotation rate check lamp: connect to the Motor Driver to make sure the ARG had reached the rated rotational speed (steady state) or not. 	
Others	The ARG 's operating condition is checked by Monitoring window.	

ARG 50T 12V - GENERAL INFORMATION:



Motor Driver

Anti Rolling Gyro Model:MSM-5000T-A1

ARG 50T 12V - POWER INVERTER:

Item	Specifications	
Model	Sinusoidal Power Inverter	
Туре	SP-1500-212	
Dimensions	83 mm(height) \times 248 mm(width) \times 421 mm(depth) 3.3 in(height) x 9.8in(width) x 16.6in(depth)	
Weight	4.1 kg	
Ambient temperature	-20 ~ 40°C	
Humidity	10 ~ 95% (with no condensation)	
Power supply	$12VDC(rated)$, $10.5 \sim 16.5VDC(operating area)$	
Output Voltage	Single-phase 200 \sim 240V、 50/60Hz	
Output Power	1500VA(rated)	
Safety Circuit	Over voltage、low voltage、reverse connection (internal fuse)、 short circuit, overload, over temperature, low temperature	



Power Inverter

Note: The power inverter is the above-mentioned commercially available or equivalent product of "Denryou" Ltd., handling and others depend on the individual specification of the product.

MSM-5000T/6500T-A1 specifications

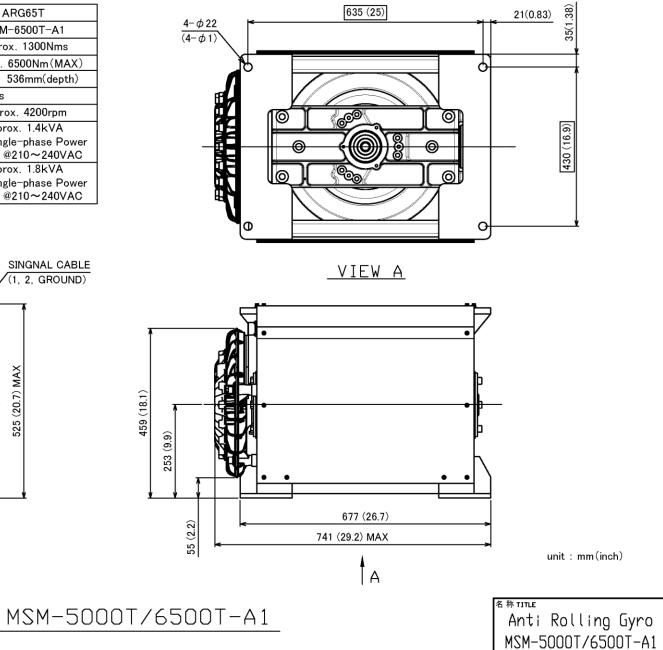
Name	ARG50T	ARG65T
Model	MSM-5000T-A1	MSM-6500T-A1
Angular momentum	Approx. 1000Nms	Approx. 1300Nms
Anti-Rolling Torque	Approx. 5000Nm(MAX)	Approx. 6500Nm(MAX)
Dimensions	525mm(height) × 741mn	n(width) × 536mm(depth)
Weight	Approx. 234kg/515lbs	
Rotaional speed	Approx. 3200rpm	Approx. 4200rpm
Power consumption (Steady-state)	Approx. 0.7kVA / For @12VDC	Approx. 1.4kVA / For single-phase Power supply @210~240VAC
Power consumption (MAX)	Approx. 1.0kVA / For @12VDC	Approx. 1.8kVA / For single-phase Power supply @210~240VAC

536 (21.1) MAX

420 (16.5)

POWER CABLE (U, V, W, GROUND) (1, 2, GROUND)

525 (20.7) MAX



ARG 65T (210 - 240 VAC) For Vessels Under 10 Tonnes



DMS Anti Rolling Gyro

* Note: Selection of correct gyro unit can only be made following performance prediction from DMS/Gyro Manufacturer.

Anti Rolling Gyro Model:MSM-6500T-A1

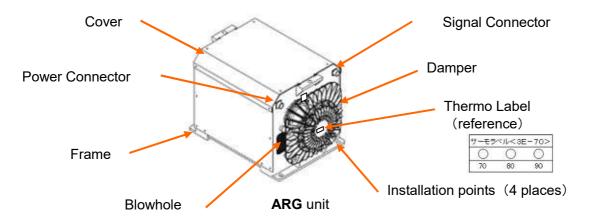
ARG 65T - GENERAL INFORMATION:

Item	Specifications	
Name	ARG65T	
Model	MSM-6500T-A1	
Dimensions	525 mm (height) x 741 mm (width) x 536 mm (depth) 20.7 inches (height) x 29.2 inches(width) x 21.1 inches (depth)	
Weight	Approx. 234 kg / 515 lbs	
Power supply	AC Single-phase 210 - 240V (MAA-6500A-A200)	
Ambient temperature	-10 to 40°C	
Power consumption * ¹⁾	Approx. 1.8kW(Max) 1.4 kW(Max) (Steady-state)	
Anti-Rolling Torque	Approx. 6,500 Nm (Max)	
Angular momentum	Approx. 1,300 Nms	
Rotational speed	Approx. 4,200 rpm	
Noise *2)	80 dBA maximum	
Vibration * ²⁾	1 m/s ² maximum	
Performance	 The ARG suppresses rolling motion of the ship. The ARG applies a principle that the Gyro torque (force) is generated by inclination of the flywheel rotating at high speed. The ARG stops automatically in abnormal conditions (excessive load, abnormal temperature, etc.). 	
Others	Start up duration to the rated speed: Approx. 30 minutes To stop the operation completely from the steady state: Approx. 60 minutes.	

*1) Power consumption varies with the customer generator.

*2) Measurement as per TOHMEI's specification.

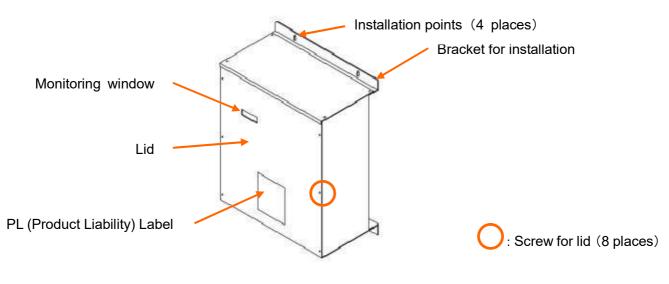
The measurements data depend on measurements conditions (installation place, measurements method, etc.).



Anti Rolling Gyro Model:MSM-6500T-A1

ARG 65T - MOTOR DRIVER:

ltem	Specifications	
Model	MAA-25000B-A200	
Dimensions	180 mm (height) x 400 mm (width) x 350 mm (depth) 7.09 inches (height) x 15.7 inches (width) x 13.7 inches (depth)	
Weight	Approx. 15 kg / 33.6 lbs	
Control method	Inverter control	
Ambient temperature	-10 to 40°C	
Humidity	5 to 95% (with no condensation)	
Pollution Degree	Do not be exposed to dust, direct sunlight, corrosive or flammable gases, oil mist, vapor or water drops. (Pollution Degree 2 (IEC60664-1))	
Power supply	Single-phase 210 to 240VAC 50/60Hz	
Options (outer connecting terminal) (Please prepare by customer)	 Remote switch: connect to the Motor Driver to remote control the ARG operation (ON/OFF). The ARG can be switched on /off by this remote switch. Start check lamp: connect to the Motor Driver to make sure the ARG is in operation or not. Rotation rate check lamp: connect to the Motor Driver to make sure the ARG had reached the rated rotational speed (steady state) or not. 	
Others	The ARG 's operating condition is checked by Monitoring window.	



Motor Driver

MSM-5000T/6500T-A1 specifications

Name	ARG50T	ARG65T
Model	MSM-5000T-A1	MSM-6500T-A1
Angular momentum	Approx. 1000Nms	Approx. 1300Nms
Anti-Rolling Torque	Approx. 5000Nm(MAX)	Approx. 6500Nm(MAX)
Dimensions	525mm(height) × 741mn	n(width) × 536mm(depth)
Weight	Approx. 234kg/515lbs	
Rotaional speed	Approx. 3200rpm	Approx. 4200rpm
Power consumption (Steady-state)	Approx. 0.7kVA / For @12VDC	Approx. 1.4kVA / For single-phase Power supply @210~240VAC
Power consumption (MAX)	Approx. 1.0kVA / For @12VDC	Approx. 1.8kVA / For single-phase Power supply @210~240VAC

536 (21.1) MAX

420 (16.5)

POWER CABLE (U, V, W, GROUND) (1, 2, GROUND)

525 (20.7) MAX

