



YANMAR

MARINE DIESEL ENGINE HIGH SPEED PRODUCTS GUIDE

MARINE PROPULSION

POWER RANGE : 25.7~1340kW

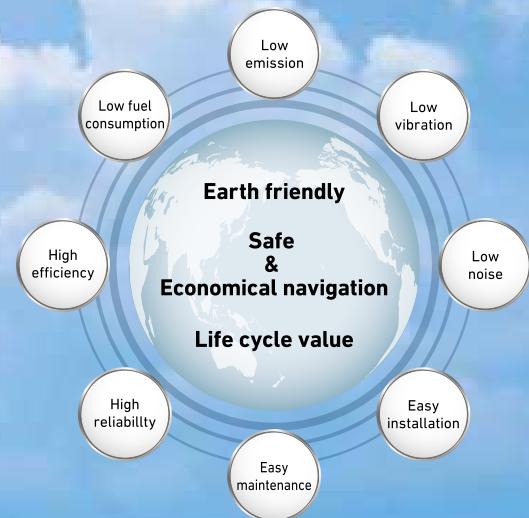
MARINE AUXILIARY

GENERATOR CAPACITY : 20~1000kWe





Bring happiness
to people
as they navigate the seas.



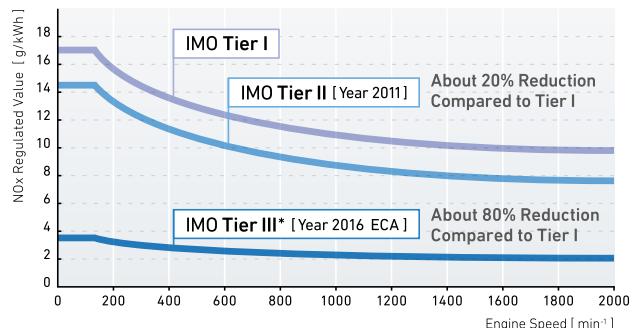
Clean, Reliable, and Future-Ready

As global emissions regulations evolve, Yanmar remains at the forefront of clean marine propulsion. Since 2016, IMO Tier III* standards have required an 80% reduction in NOx emissions for vessels operating in Emission Control Areas (ECAs). Regulations have also limited sulfur content in marine fuels to 0.5% or less since 2020. Yanmar engines are engineered not only to meet these stringent standards but also to exceed expectations.

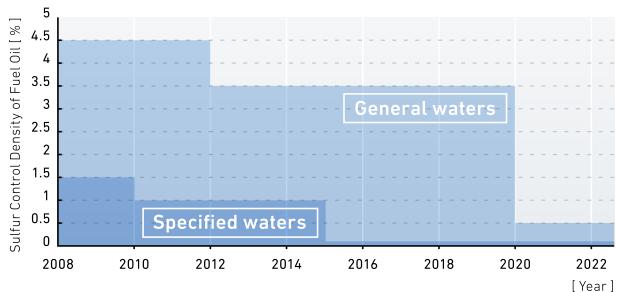
With a legacy of reliability across a wide range of commercial marine applications, Yanmar continues to develop advanced technologies that anticipate and adapt to regulatory changes. Our engines are designed for long-term performance, minimal environmental impact, and maximum compliance.

Beyond compliance, we focus on increasing the **Life Cycle Value** of our products—ensuring greater efficiency, reduced downtime, and lower total cost of ownership. With a deep commitment to sustainability and harmony with nature, Yanmar delivers clean, optimised solutions that extend vessel longevity and support a better future at sea.

IMO NOx Regulation



IMO SOx Regulation



* Tier III is applied in general waters

ECA = Emission Control Area

IMO = International Maritime Organization

NOx = Nitrogen Oxides

SOx = Sulfur Oxides

Precision-Made Power, Trusted Worldwide



At Yanmar, our Large Power Products Business is dedicated to developing and producing small to medium-sized diesel engines, designed and built with precision at our Tsukaguchi Plant in Japan.

Every process step is managed under a unified quality control system, from component machining and engine assembly to rigging and rigorous test runs. This ensures consistently high standards across our full range of marine propulsion, auxiliary, and land-based industrial engines.

Drawing on decades of expertise and refined technology, we deliver highly reliable engines trusted by customers in Japan and across the globe. At Yanmar, we build more than engines—we build confidence in every application.

Certified by the seven major classification societies.

The Tsukaguchi Plant has been certified by world's six most authoritative shipping classification societies, LR(Lloyd's Register of Shipping), ABS(American Bureau of Shipping), NK(Nippon Kaiji Kyokai), BV(Bureau Veritas), RINA(Registro Italiano Navale) and KR(Korean Register of Shipping).



Certifications of 6 major shipping classification societies

NK : Nippon Kaiji Kyokai
ABS : American Bureau of Shipping
LR : Lloyd's Register of Shipping
RINA : Registro Italiano Navale
BV : Bureau Veritas
KR : Korean Register of Shipping

The Certifications of shipping classification societies vary with the model of engine. For more information, please contact us.

MARINE PROPULSION

DIESEL ENGINE
LINE-UP



Power Range

Model	Raiting	Max Output
4JHYE	M-L	25.7~29.4kW
4CHE3	M-L	57.4~62.5kW
6CHE3	M-L	84.6~95.6kW
6CH-HTE3	M-L	125~140kW
6CH-WDTE	M-L	154~169kW
6CH-WUTE	M-L	188~206kW
	H	265kW
6CXB-M-GT	M	294kW
	L	341kW
	S	374kW [For planing hull]
6HA2M-WHT	H	204kW
	M	257kW
6HA2M-WDT	M	298kW
	H	368kW
6HYM-WET	M	441kW
	L	478kW
	S	515kW [For planing hull]
	C	372kW
	H	447kW
6GY135W	M	522kW
	L	559kW
	S	599kW
6AYM-WST	Cont.	485kW
	Cont.	555kW
6AYM-WET	M	610kW
6AYM-WGT	L	670kW
6AYEM-ST	Cont.	485kW [EPA TierIII]
	Cont.	555kW [IMO TierII]
6AYEM-ET	H	599kW [EPA TierIII]
	M	610kW [IMO TierII]
6AYEM-GT	L	670kW
	S	737~749kW
12AYM-WST	H	882~1030kW
	H	1140kW
12AYM-WET	M	1220kW
12AYM-WGT	L	1340kW
12AYEM-ST	Cont.	1030kW
	H	1140kW
12AYEM-ET	M	1220kW
12AYEM-GT	L	1340kW

0 200 400 600 800 1000 1200 1400 1600 1800 [kW]

0 200 400 600 800 1000 1200 1400 1600 1800 [mhp]

Rating Conditions:

Ratings are based on ISO 15550 reference conditions: 100 kPa atmospheric pressure, 25°C [77°F] air temperature, and 30% relative humidity.

- S = For applications where rated power is less than 1.5 hours continuous out of every 5 hours and operation is less than 1000 hours per year. When combined with a correctly matched propeller, which allows the engine's rated rpm to be achieved in a fully loaded vessel state, the reduced-power operation can be at or below 100-200 rpm of the rated speed.
- L = For applications where the use of rated power is less than 2 hours continuous out of every 5 hours, and operation is less than 2500 hours per year. When combined with a correctly matched propeller, which allows the engine's rated rpm to be achieved in a fully loaded vessel state, the reduced-power operation can be at or below 100-200 rpm of the rated speed.
- M = For applications where use of rated power is less than 8 hours continuous out of every 12 hours and operation is less than 4000 hours per year. When combined with a correctly matched propeller, which allows the engine's rated rpm to be achieved in a fully loaded vessel state, the reduced-power operation can be at or below 100-120 rpm of the rated speed.
- H = For applications where use of rated power is less than 10 hours continuous out of every 12 hours and operation is less than 6000 hours per year. When combined with a correctly matched propeller, which allows the engine's rated rpm to be achieved in a fully loaded vessel state, the reduced-power operation can be at or below 100-200 rpm of the rated speed.
- C = This application has no limit regarding annual maximum operation hours per year, continuous operation hours and load factor.

For detailed model specifications, please contact Yanmar or your local distributor.

Fuel consumption values are based on a fuel with the following properties: specific gravity of 840 g/l, lower calorific value of 42700 kJ/kg (10200 kcal/kg), and a cetane number of 45.

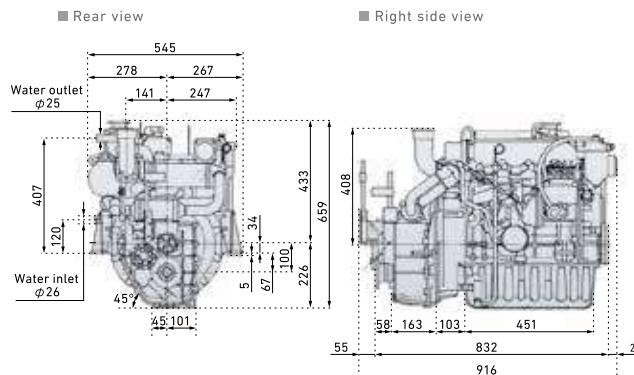
	Light Duty		Medium Duty		Heavy Duty	
Rating	S-rating	L-rating	M-rating	H-rating	Continuous	
Annual maximum operation hours per year	≤ 1000 hours	≤ 2500 hours	≤ 4000 hours	≤ 6000 hours	no limit	
Continuous operation hours	1.5 hrs / 5 hrs (or below)	2 hrs / 5 hrs (or below)	8 hrs / 12 hrs (or below)	10 hrs / 12 hrs (or below)		
Load factor	30% or below	40% or below	60% or below	80% or below		



- 4-cylinder, direct injection, heat exchanger cooling.
- Natural aspiration.
- Yanmar YX marine gear is standard.

Specifications

Model	4JHYE
Number of cylinders	4 in-line
Bore x stroke	mm 78 x 86
Displacement	lit. 1.644
Fuel stop output	kW(mhp)/rpm M : 25.7(35)/3400 L : 29.4(38)/3600
Combustion system	Direct injection
Aspiration	Natural aspirated
Starting system	Electric motor (12V 1.8kW)
Cooling system	Heat exchanger
Marine gear	Hydraulic
Dry mass	kg 243 with YX-10
Dimensions [L×W×H]	mm 916×545×659 with YX-10

Dimensions [mm]

4CHE3 / 6CHE3

M+L-rating 57.4~95.6kW [78~130mhp]



- Direct injection, heat exchanger cooling.
- Natural aspirated 4- and 6-cylinder.
- Durable hydraulic marine gear.

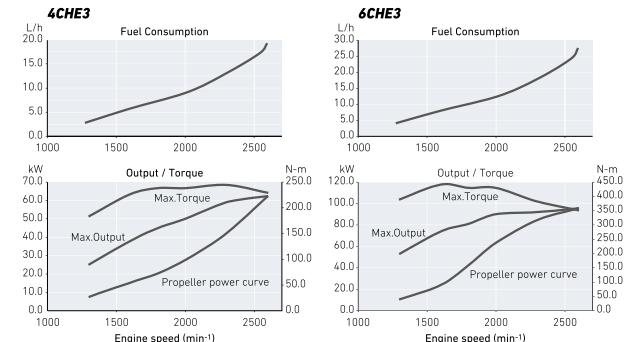
Specifications

Model	4CHE3	6CHE3
Number of cylinders	4 in-line	6 in-line
Bore x stroke	mm	105 x 125
Displacement	lit.	4.330 6.494
Fuel stop output		M : 57.4[78]/2550 M : 84.6[115]/2550
	kW[mhp]/rpm	L : 62.5[85]/2600 L : 95.6[130]/2600
Combustion system		Direct injection
Aspiration		Natural aspirated
Starting system		Electric starting motor [24V 4.5kW]
Cooling system		Heat exchanger
Marine gear		Hydraulic
Size of flywheel housing and flywheel		SAE #3 and 11-1/2 in.
Dry mass	kg	570 700
Dimensions [L x W x H]	mm	1258 x 688 x 1022 with YX30 1496 x 690 x 1018 with YX30

Marine gear specifications / Engine model : 4CHE3 • 6CHE3

Model	YX-30
Type	Hydraulic multi-disc clutch, wet type
Reduction ratio [Ahead]	2.03 2.55 2.96 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern
Dry weight	kg
	70

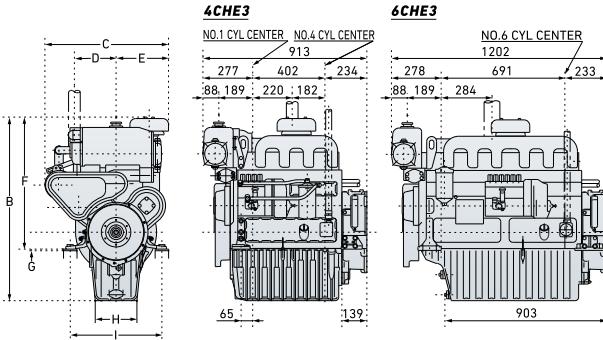
Performance curves



Dimensions [mm]

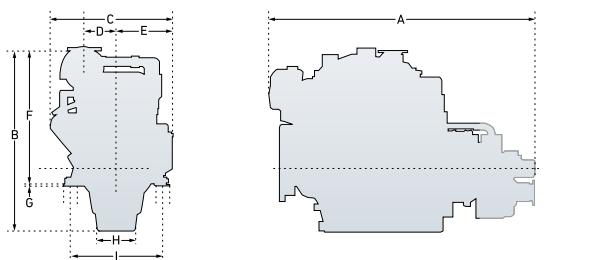
■ Engine only / Front view

■ Engine only / Left side view



■ With YX-30 gearbox / Rear view

■ With YX-30 gearbox / Left side view



Model	A	B	C	D	E	F	G	H	I
4CHE3×YX-30	1258	1022	688	232	292	735	9	232	510
6CHE3×YX-30	1496	1018	690	233	300	737	9	233	550

– Marine gear

6CH-HTE3

M+L-rating 125~140kW [170~190mhp]

- Direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- Durable hydraulic marine gear.



Specifications

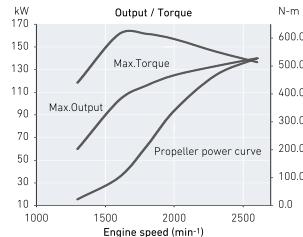
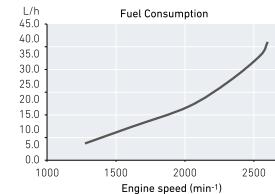
Model	6CH-HTE3
Number of cylinders	6 in-line
Bore x stroke	105 x 125
Displacement	6.494
Fuel stop output	M : 125[170]/2550 L : 140[190]/2600
kW[mhp]/rpm	
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 4.5kW]
Cooling system	Heat exchanger
Marine gear	Hydraulic
Size of flywheel housing and flywheel	SAE #3 and 11-1/2 in.
Dry mass	795 [YX-50S] • 895 [YX-71]
Dimensions [LxWxH]	1575x736x1096 [YX-50S] • 1600x736x1096 [YX-71]

Marine gear specifications / Engine model : 6CH-HTE3

Model	YX-50S	YX-71
Type	Hydraulic multi-disc clutch, wet type	
Reduction ratio [Ahead]	2.03 2.48 2.88	3.53
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern	
Dry weight	120	220

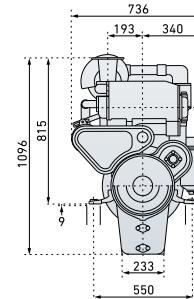
Performance curves

6CH-HTE3

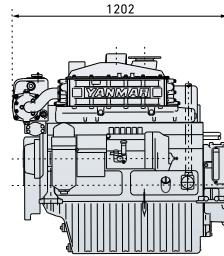


Dimensions [mm]

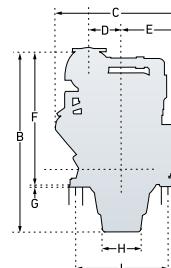
■ Engine only / Front view



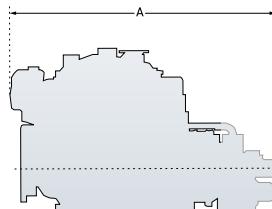
■ Engine only / Left side view



■ With gearbox / Rear view



■ With gearbox / Left side view



Model	A	B	C	D	E	F	G	H	I
6CH-HTE3-YX-50S	1575	1096	736	193	340	815	9	233	550
6CH-HTE3-YX-71	1600	1096	736	193	340	815	9	233	550

– Marine gear

6CH-WDTE

M+L-rating 154~169kW [209~230mhp]

- Direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- Durable hydraulic marine gear.
- 6CH-WDTE conform to IMO Tier II emissions regulations.



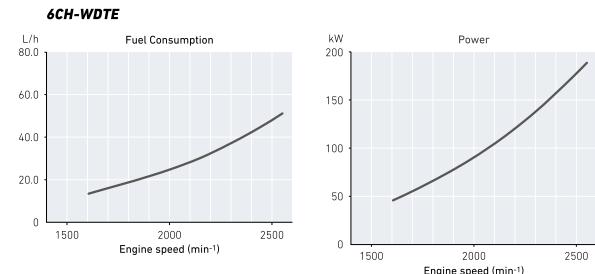
Specifications

Model	6CH-WDTE
Number of cylinders	6 in-line
Bore x stroke	105 x 125
Displacement	6.494
Fuel stop output	M : 154[209]/2550
	L : 169[230]/2600
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 4.5kW]
Cooling system	Heat exchanger
Marine gear	Hydraulic
Size of flywheel housing and flywheel	SAE #3 and 11-1/2 in.
Dry mass	900
Dimensions [LxWxH]	1600x736x1096

Marine gear specifications / Engine model : 6CH-WDTE

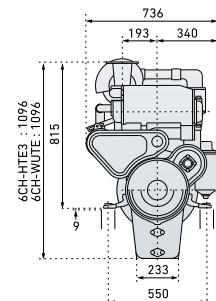
Model	YX-71
Type	Hydraulic multi-disc clutch, wet type
Reduction ratio [Ahead]	2.07 2.58 2.91 3.53
Direction of rotation (propeller shaft)	Clockwise or counter-clockwise viewed from stern
Dry weight	220

Performance curves

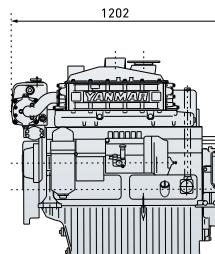


Dimensions (mm)

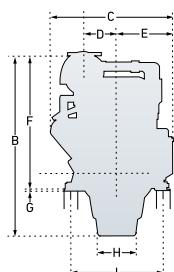
■ Engine only / Front view



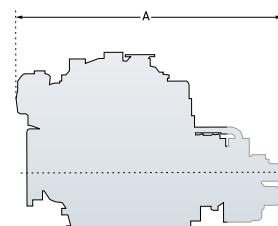
■ Engine only / Left side view



■ With gearbox / Rear view



■ With gearbox / Left side view



— Marine gear

Model	A	B	C	D	E	F	G	H	I
6CH-WDTE-YX-71	1600	1096	736	193	340	815	9	233	550

— Marine gear

6CH-WUTE

M+L-rating 188~206kW [255~280mhp]

- Direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- Durable hydraulic marine gear.
- 6CH-WUTE conform to IMO Tier II emissions regulations.



Specifications

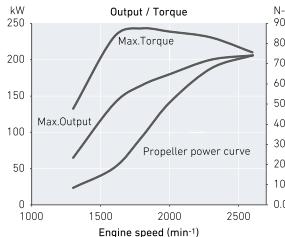
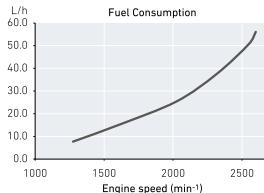
Model	6CH-WUTE
Number of cylinders	6 in-line
Bore x stroke	105 x 125
Displacement	6.494
Fuel stop output	M : 188[255]/2550
	L : 206[280]/2600
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 4.5kW]
Cooling system	Heat exchanger
Marine gear	Hydraulic
Size of flywheel housing and flywheel	SAE #3 and 11-1/2 in.
Dry mass	940
Dimensions [LxWxH]	1600x736x1096

Marine gear specifications / Engine model : 6CH-WUTE

Model	YX-71
Type	Hydraulic multi-disc clutch, wet type
Reduction ratio [Ahead]	2.07 2.58 2.91 3.53
Direction of rotation (propeller shaft)	Clockwise or counter-clockwise viewed from stern
Dry weight	220

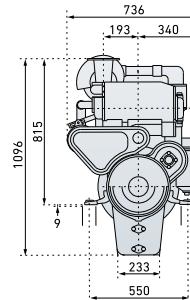
Performance curves

6CH-WUTE

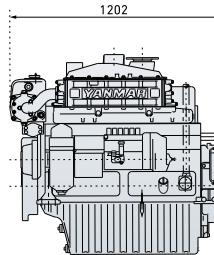


Dimensions [mm]

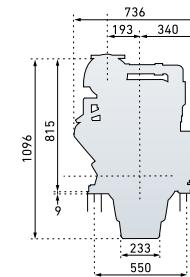
■ Engine only / Front view



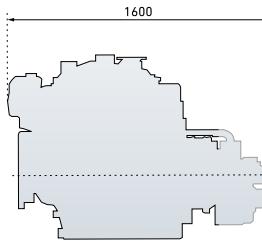
■ Engine only / Left side view



■ With gearbox / Rear view



■ With gearbox / Left side view



— Marine gear

6CXBM-GT

H-rating 265kW [360mhp]

M-rating 294kW [400mhp]



- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- Available either with marine gear or without marine gear.
- 4-valves per cylinder for higher combustion efficiency.
- Conform to IMO Tier II emissions regulations.

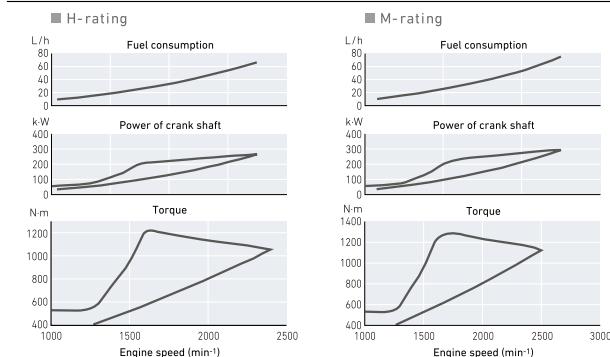
Specifications

Model	6CXBM-GT
Number of cylinders	6 in-line
Bore x stroke	110 x 130 mm
Displacement	7.413 lit.
Rated output	H : 265[360]/2400 M : 294[400]/2500 kW[mhp]/rpm
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 5.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #3 and 11-1/2 in.
Dry mass	856 kg
Dimensions [LxWxH]	1390x901x989 mm

Marine gear specifications / Engine model : 6CXBM-GT

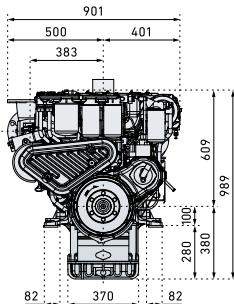
Model	YX-80
Type	Hydraulic multi-disc clutch, wet type
Reduction ratio [Ahead]	2.07 2.58 2.91
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern
Dry weight	204 kg

Performance curves

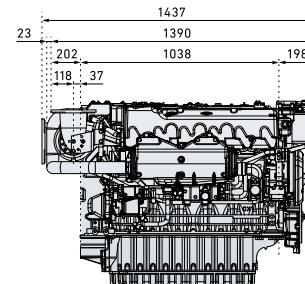


Dimensions [mm]

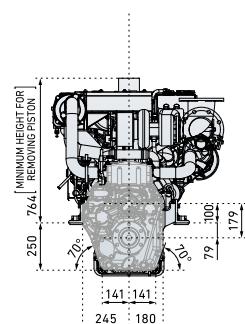
■ Engine only / Front view



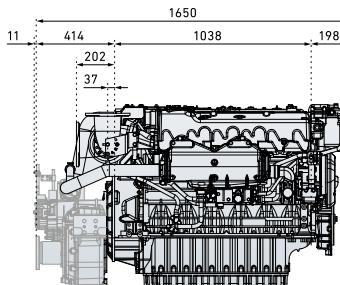
■ Engine only / Right side view



■ With YX80 gearbox / Rear view



■ With YX80 gearbox / Right side view



– Marine gear

6CXBM-GT

L-rating **341kW [464mhp]**

S-rating **374kW [508mhp]** (For planing hull)



- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- Available either with marine gear or without marine gear.
- 4-valves per cylinder for higher combustion efficiency.
- Conform to IMO Tier II emissions regulations.

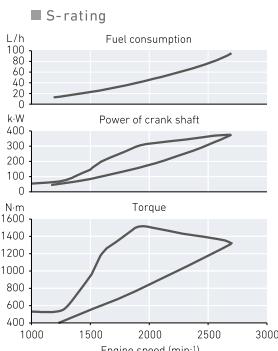
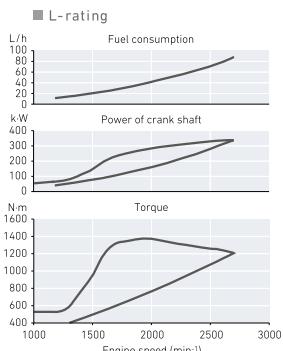
Specifications

Model	6CXBM-GT	
Number of cylinders	6 in-line	
Bore x stroke	mm	110 x 130
Displacement	lit.	7.413
Rated output		L: 341[464]/2700
	kW[mhp]/rpm	S: 374[508]/2700
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 5.0kW]	
Cooling system	Heat exchanger	
Size of flywheel housing and flywheel	SAE #3 and 11-1/2 in.	
Dry mass	kg	856
Dimensions [LxWxH]	mm	1390x901x989

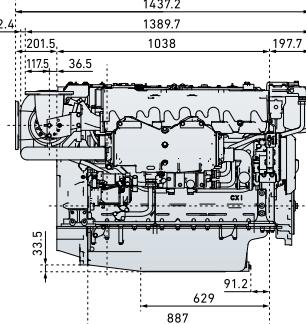
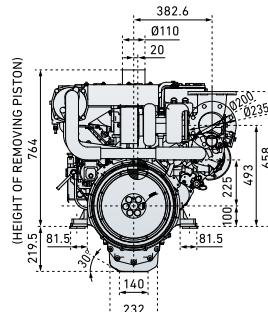
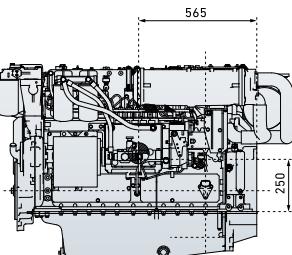
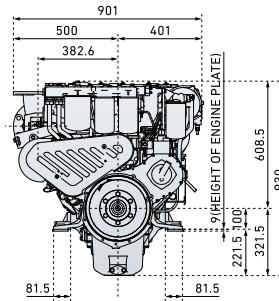
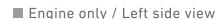
Marine gear specifications / Engine model : **6CXBM-GT**

Model	YX-80		
Type	Hydraulic multi-disc clutch, wet type		
Reduction ratio [Ahead]	2.07 2.58 2.91		
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern		
Dry weight	kg	204	

Performance curves



Dimensions (mm)



6HA2M-WHT

H-rating 204kW [278mhp]

M-rating 257kW [350mhp]



- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler models.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II emissions regulations.

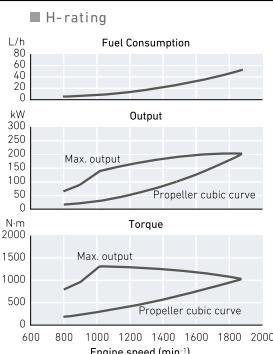
Specifications

Model	6HA2M-WHT
Number of cylinders	6 in-line
Bore x stroke	mm 130 x 165
Displacement	lit. 13.140
Rated output	H: 204[278]/1880 M: 257[350]/1950 kW[mhp]/rpm
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 6.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #1 and 14 in.
Dry mass	kg 1455
Dimensions [L x W x H]	mm 1585 x 1016 x 1260

Marine gear specifications / Engine model: 6HA2M-WHT

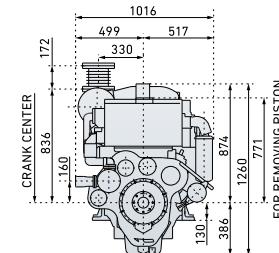
Model	YX-120	YX-120L
Type	Hydraulic multi-disc clutch, wet type	
Reduction ratio [Ahead]	2.03 2.57 3.04 3.55	4.00 4.59
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	kg 315	411

Performance curves

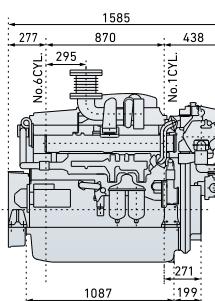


Dimensions (mm)

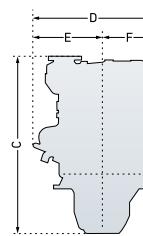
■ Engine only / Front view



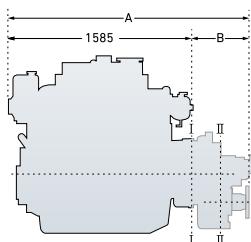
■ Engine only / Right side view



■ With YX120L gearbox / Front view



■ With YX120L gearbox / Left side view



Model	A	B	C	D	E	F
6HA2M-WHT-YX-120	2005	420	1272	1016	499	517
6HA2M-WHT-YX-120L	2039	454	1384	1016	499	517

– Marine gear

6HA2M-WDT

M-rating 298kW [405mhp]



- 4 valves per cylinder for higher combustion efficiency.
- Turbocharger + intercooler models.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II emissions regulations.

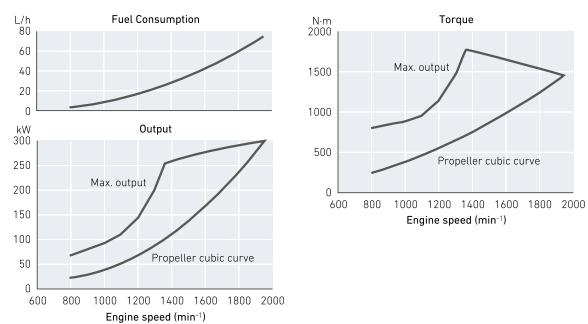
Specifications

Model	6HA2M-WDT
Number of cylinders	6 in-line
Bore x stroke	mm 130 x 165
Displacement	lit. 13.140
Rated output	kW[mhp]/rpm M : 298[405]/1950
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 6.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #1 and 14 in.
Dry mass	kg 1465
Dimensions [L x W x H]	mm 1585x1036x1260

Marine gear specifications / Engine model : 6HA2M-WDT

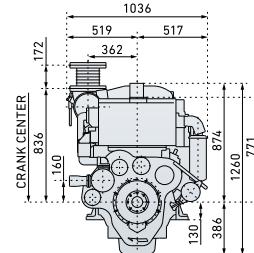
Marine gear specifications / Engine model: CHAZEM-WBT						
Model	YX-120	YX-120L				
Type	Hydraulic multi-disc clutch, wet type					
Reduction ratio (Ahead)	2.03	2.57	3.04	3.46	4.00	4.59
Direction of rotation (propeller shaft)	Clockwise or counter-clockwise					
Dry weight	kg	315	411			

Performance curves

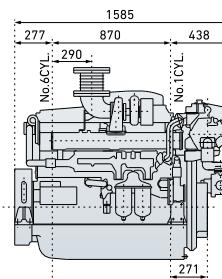


Dimensions [mm]

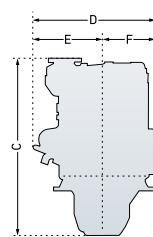
■ Engine only / Front view



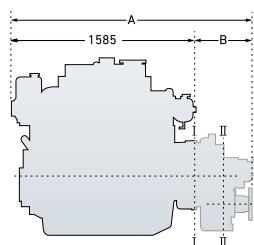
■ Engine only / Right side view



■ With YX120I gearbox / Front view



■ With YX120I gearbox / Left side view



Model	A	B	C	D	E	F
6HA2M-WDT×YX-120	2005	420	1272	1036	519	517
6HA2M-WDT×YX-120L	2039	454	1384	1036	519	517

– Marine gear

6HYM-WET

H-rating **368kW [500mhp]**



- 6-cylinder, direct injection, heat exchanger cooling.
- Twin-turbocharger + intercooler.
- Available either with marine gear or without marine gear.
- 4-valves per cylinder for higher combustion efficiency.
- Conform to IMO Tier II emissions regulations.

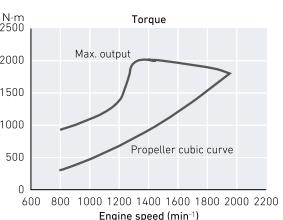
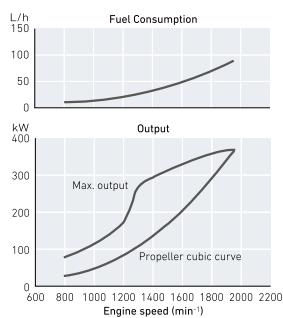
Specifications

Model	6HYM-WET H-rating	
Number of cylinders	6 in-line	
Bore x stroke	mm	132.9 x 165
Displacement	lit.	13.733
Rated output	kW[mhp]/rpm	368[500]/1950
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 6.0kW]	
Cooling system	Heat exchanger	
Size of flywheel housing and flywheel	SAE #1 and 14 in.	
Dry mass	kg	1385 [without marine gear]
Dimensions [L x W x H]	mm	1556x1014x1133

Marine gear specifications / Engine model : **6HYM-WF H-rating**

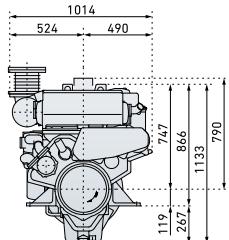
Marine gear specifications / Engine model: GMV 1600 W Rating			
Model	YXH-160		YX-161L
Type	Hydraulic multi-disc clutch		
Reduction ratio [Ahead]	1.97	2.46	3.65 4.08
	3.05		4.55
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise		
Dry weight	kg	396	620

Performance curves

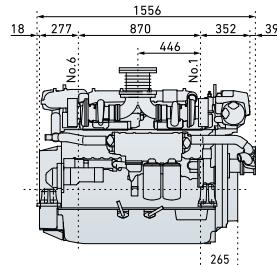


Dimensions (mm)

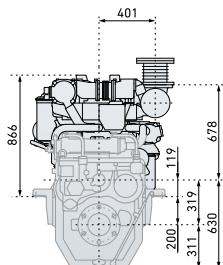
■ Engine only / Front view



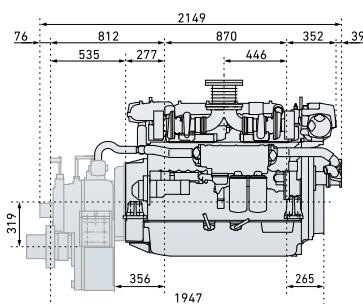
■ Engine only / Right side view



■ With YX161L gearbox / Rear view



■ With YX161L gearbox / Right side view



– Marine gear

6HYM-WET

M-rating 441kW [600mhp]

L-rating 478kW [650mhp]



- 6-cylinder, direct injection, heat exchanger cooling.
- Twin-turbocharger + intercooler.
- Available either with marine gear or without marine gear.
- 4-valves per cylinder for higher combustion efficiency.
- Conforms to IMO Tier II emissions regulations.

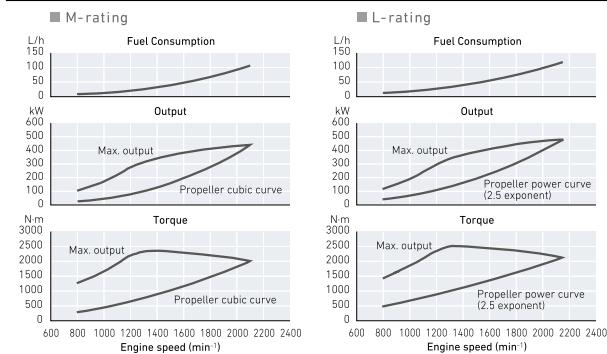
Specifications

Model	6HYM-WET
Number of cylinders	6 in-line
Bore x stroke	mm 132.9 x 165
Displacement	lit. 13.733
Rated output	kW[mhp]/rpm M: 441[600]/2100 L: 478[650]/2150
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 6.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #1 and 14 in.
Dry mass	kg 1385 [without marine gear]
Dimensions [LxWxH]	mm 1556x1014x1133

Marine gear specifications / Engine model : 6HYM-WET M-rating / L-rating

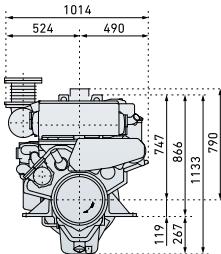
Model	YXH-160	YXH-161L
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	1.97 2.46 3.05	3.65 4.08 4.55
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	kg 396	620

Performance curves

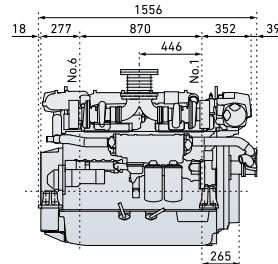


Dimensions (mm)

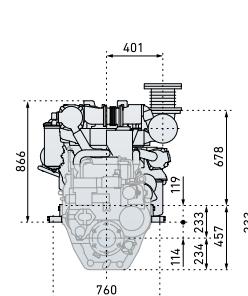
■ Engine only / Front view



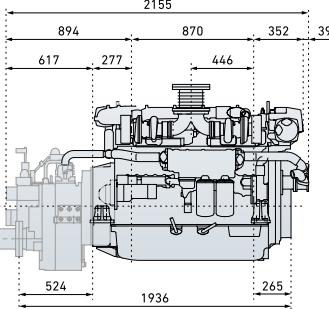
■ Engine only / Right side view



■ With YXH160 gearbox / Rear view



■ With YXH160 gearbox / Right side view



6HYM-WET

S-rating 515kW [700mhp] (For planing hull)



- 6-cylinder, direct injection, heat exchanger cooling.
- Twin-turbocharger + intercooler.
- Available either with marine gear or without marine gear.
- 4-valves per cylinder for higher combustion efficiency.
- Conforms to IMO Tier II emissions regulations.

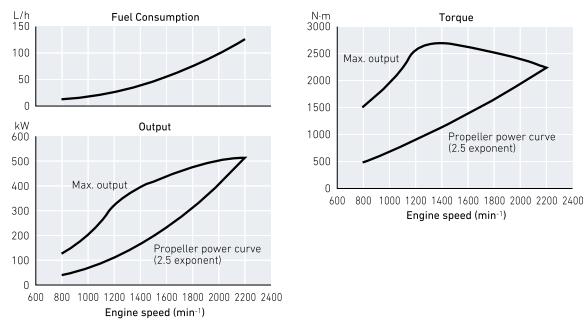
Specifications

Model	6HYM-WET S-rating
Number of cylinders	6 in-line
Bore x stroke	mm 132.9 x 165
Displacement	lit. 13.733
Rated output	kW[mhp]/rpm 515[700]/2200
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 6.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #1 and 14 in.
Dry mass	kg 1385 [without marine gear]
Dimensions [L x W x H]	mm 1556 x 1014 x 1133

Marine gear specifications / Engine model : 6HYM-WET S-rating

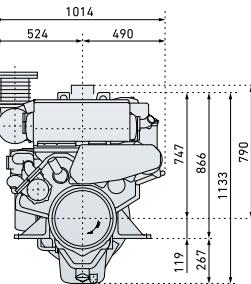
Model	YXH-160
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.97 2.46 3.05
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight	kg 396

Performance curves

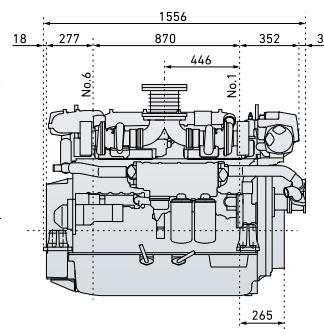


Dimensions (mm)

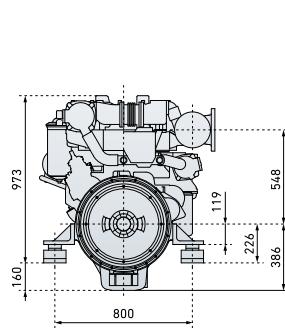
■ Engine only / Front view



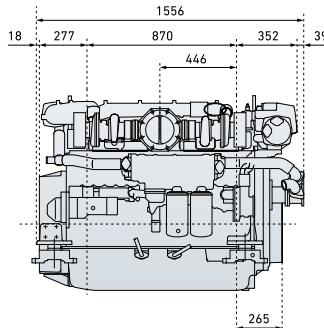
■ Engine only / Right side view



■ Engine only / Rear view



■ Engine only / Left side view



6GY135W [EPA Tier III] [IMO Tier II & III]



C-rating 372kW [499mhp]

- Common Rail system
- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- **Conform to IMO Tier II and Tier III emissions regulations.**

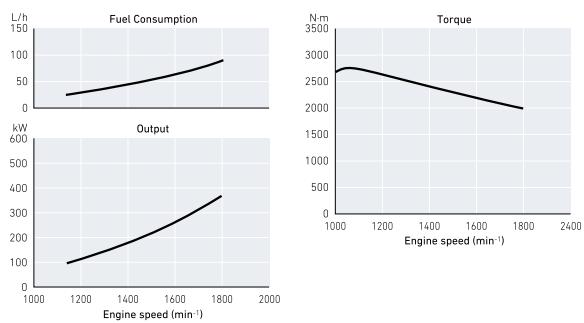
Specifications

6GY135W C-rating	
Number of cylinders	6 in-line
Bore x stroke	mm 135 x 170
Displacement	lit. 14.600
Rated output	kW[mhp]/rpm 372(499)/1800
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 6.0kW]
Cooling system	Heat exchanger
Size of flywheel/housing and flywheel	SAE #1 and 14 in.
Dry mass	kg 1825 [without marine gear]
Dimensions [LxWxH]	mm 1645x1055x1254

Marine gear specifications / Engine model : **6GY135W**

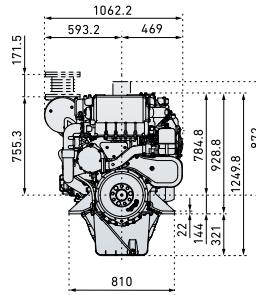
Model	YXH-160-7
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.97 2.46 3.05 3.24
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight kg	422

Performance curves

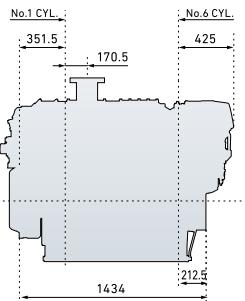


Dimensions [mm]

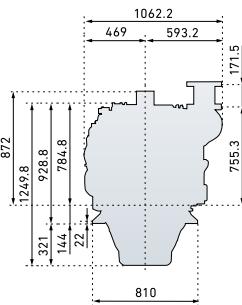
■ Engine only / Front view



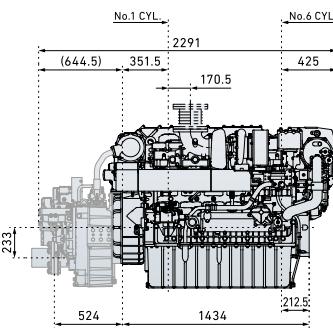
■ Engine only / Right side view



■ Engine only / Rear view



■ With YXH160-7 gearbox / Right side view

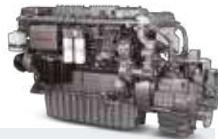


– Marine gear

6GY135W [EPA Tier III] [IMO Tier II & III]

H-rating 447kW [559mhp]

M-rating 522kW [700mhp]



- Common Rail system
- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- **Conform to IMO Tier II and Tier III emissions regulations.**

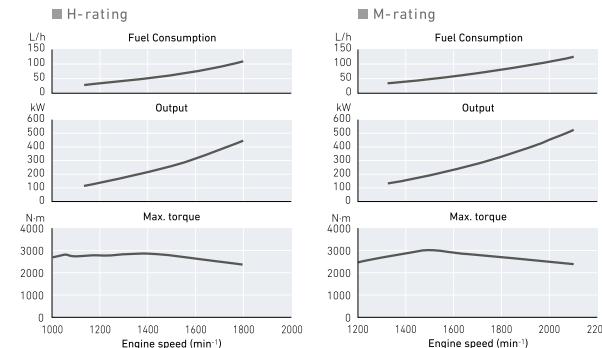
Specifications

Model	6GY135W H-rating	6GY135W M-rating
Number of cylinders		6 in-line
Bore x stroke	mm	135 x 170
Displacement	lit.	14.600
Rated output	kW[mhp]/rpm	447[599]/1800
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 6.0kW]
Cooling system		Heat exchanger
Size of flywheel housing and flywheel		SAE #1 and 14 in.
Dry mass	kg	1825 [without marine gear]
Dimensions [L x W x H]	mm	1645 x 1055 x 1254

Marine gear specifications / Engine model : **6GY135W**

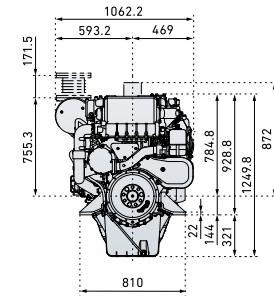
Model	YXH-160-7			
Type	Hydraulic multi-disc clutch			
Reduction ratio [Ahead]	1.97 2.46 3.05 3.24			
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise			
Dry weight	kg	422		

Performance curves

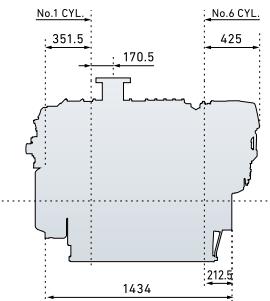


Dimensions [mm]

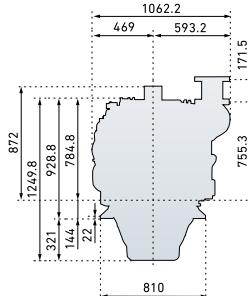
■ Engine only / Front vie



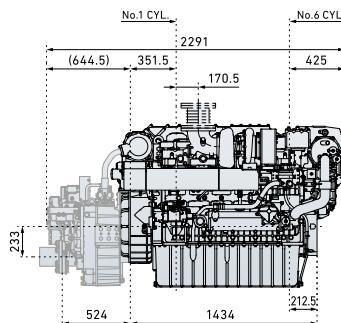
■ Engine only / Right side view



■ Engine only / Rear view



■ With YXH160-7 gearbox / Right side view



– Marine gear

6GY135W [EPA Tier III][IMO Tier II&III]

L-rating **559kW [750mhp]**

S-rating **599kW [803mhp]**



- Common Rail system
- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- **Conform to IMO Tier II and Tier III emissions regulations.**

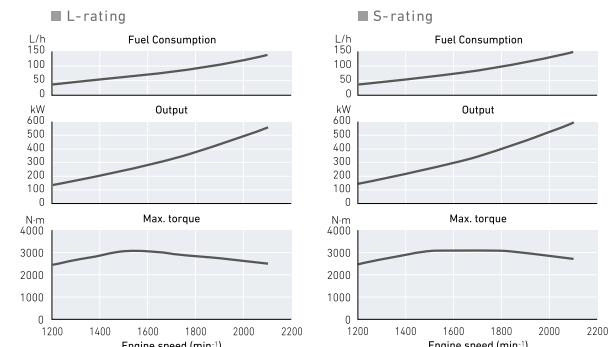
Specifications

Model	6GY135W L-rating	6GY135W S-rating
Number of cylinders	6 in-line	
Bore x stroke	135 x 170	
Displacement	14.600	
Rated output	559[750]/2100	599[803]/2100
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 6.0kW]	
Cooling system	Heat exchanger	
Size of flywheel housing and flywheel	SAE #1 and 14 in.	
Dry mass	1825 [without marine gear]	
Dimensions [LxWxH]	1645x1055x1254	

Marine gear specifications / Engine model : 6GY135W

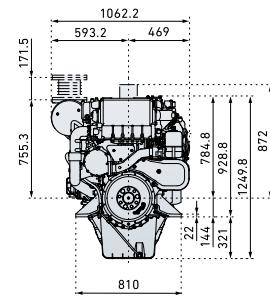
Model	YXH-160-7
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.97 2.46 3.05 3.24
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight	422

Performance curves

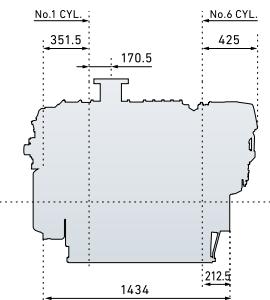


Dimensions [mm]

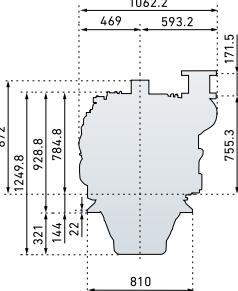
■ Engine only / Front view



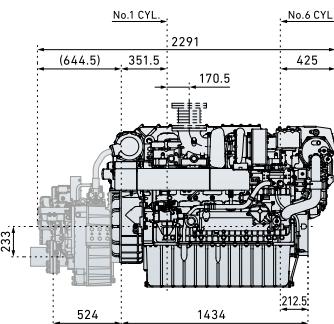
■ Engine only / Right side view



■ Engine only / Rear view



■ With YXH160-7 gearbox / Right side view



— Marine gear

6AYM-WST

Continuous-rating 485kW [659mhp]



- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II emissions regulations.

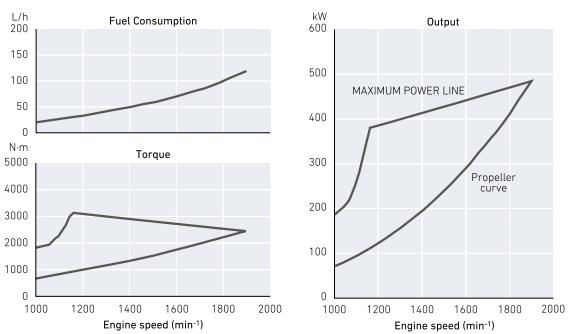
Specifications

Model	6AYM-WST C-rating	
Number of cylinders	6 in-line	
Bore x stroke	mm	155 x 180
Displacement	lit.	20.379
Rated output	kW[mhp]/rpm	C : 485(659)/1900
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 8.0kW]	
Cooling system	Heat exchanger	
Size of flywheel housing and flywheel	SAE #0 and 18 in.	
Dry mass	kg	2365 [without marine gear] 2000x1305x1431
Dimensions [LxWxH]	mm	

Marine gear specifications / Engine model : 6AYM-WST C-rating

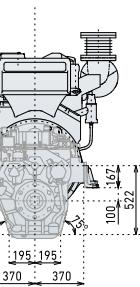
Model	YX-181	YX-180L	YXH-240L
Type	Hydraulic multi-disc clutch		
Reduction ratio [Ahead]	2.08 2.55	3.50 4.00	4.13 4.48 4.89 5.36
	3.03	4.54	5.91 6.57 6.95
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise		
Dry weight	kg	560	680
			1240

Performance curves

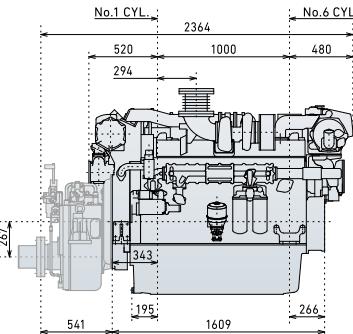


Dimensions [mm]

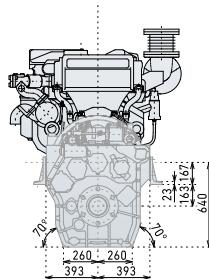
■ With YX181 gearbox / Rear view



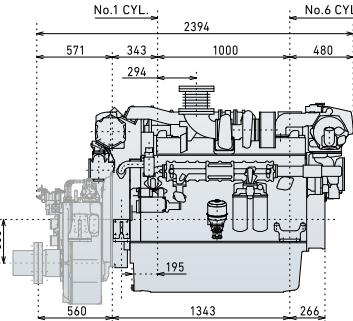
■ With YX181 gearbox / Right side view



■ With YX180L gearbox / Rear view



■ With YX180L gearbox / Right side view



– Marine gear

6AYM-WET

Continuous-rating 555kW [755mhp]



- 6-cylinder, direct injection, heat exchanger & keel cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II emissions regulations.

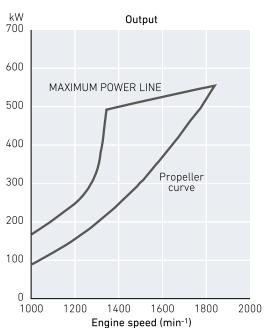
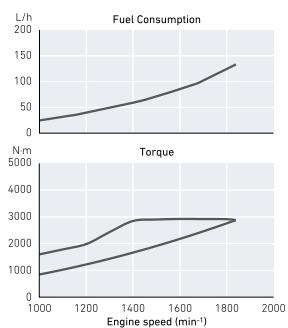
Specifications

Model	6AYM-WET C-rating
Number of cylinders	6 in-line
Bore x stroke	155 x 180
Displacement	20.379
Rated output	555kW[755mhp]/1840
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #0 and 18 in.
Dry mass	2365 [without marine gear]
Dimensions [LxWxH]	2000x1305x1431

Marine gear specifications / Engine model : 6AYM-WET C-rating

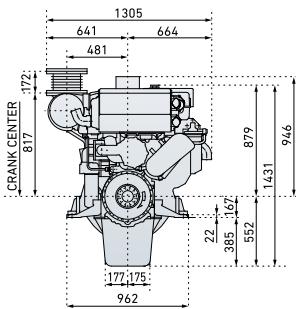
Model	YXH-240	YXH-240L
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48	4.13 4.48 4.89 5.36 5.91 6.57 6.95
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	632	1240

Performance curves

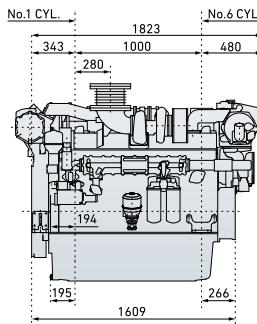


Dimensions [mm]

■ Engine only / Front view

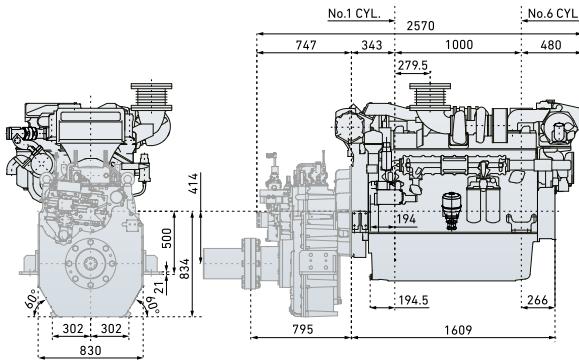


■ Engine only / Right side view



■ With YXH240L gearbox / Rear view

■ With YXH240L gearbox / Right side view



– Marine gear

6AYM-WET

M-rating 610kW [829mhp]



- 6-cylinder, direct injection, heat exchanger & keel cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II emissions regulations.

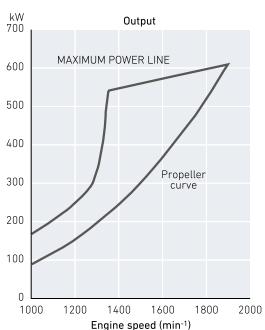
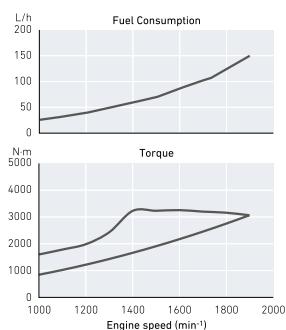
Specifications

Model	6AYM-WET M-rating	
Number of cylinders	6 in-line	
Bore x stroke	mm	155 x 180
Displacement	lit.	20.379
Rated output	kW [mhp]/rpm	M : 610[829]/1900
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 8.0kW]	
Cooling system	Heat exchanger	
Size of flywheel housing and flywheel	SAE #0 and 18 in.	
Dry mass	kg	2365 [without marine gear]
Dimensions [L×W×H]	mm	2000×1305×1431

Marine gear specifications / Engine model : 6AYM-WET M-rating

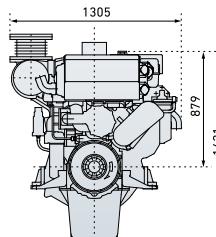
Model	YXH-240	YXH-240L
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	1.95 2.27 2.56	4.13 4.48 4.89 5.36 5.91
	3.03 3.48	6.57 6.95
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	kg	632 1240

Performance curves

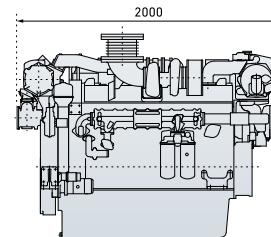


Dimensions (mm)

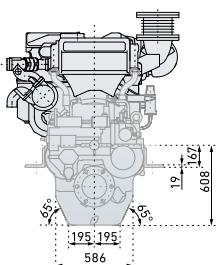
■ Engine only / Front view



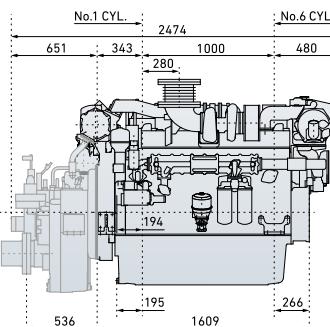
■ Engine only / Right side view



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



– Marine gear

6AYM-WGT

L-rating **670kW [911mhp]**



- 6-cylinder, direct injection, heat exchanger & keel cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II emissions regulations.

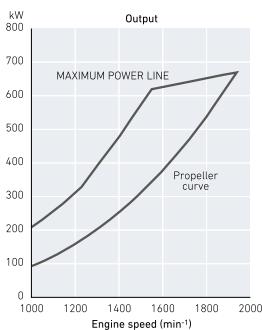
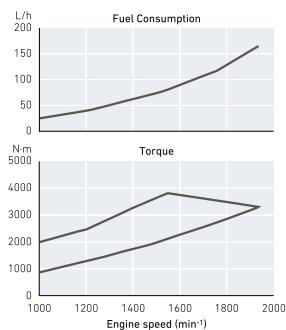
Specifications

Model	6AYM-WGTL rating	
Number of cylinders	6 in-line	
Bore x stroke	mm 155 x 180	
Displacement	lit. 20.379	
Rated output	kW[mhp]/rpm L: 670[911]/1938	
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 8.0kW]	
Cooling system	Heat exchanger	
Size of flywheel housing and flywheel	SAE #0 and 18 in.	
Dry mass	kg	2365 [without marine gear]
Dimensions [L x W x H]	mm	2000 x 1305 x 1431

Marine gear specifications / Engine model : **6AYM-WGT L-rating**

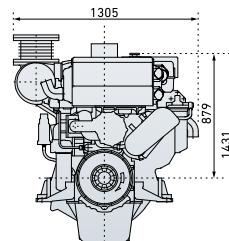
Model	YXH-240
Type	Hydraulic multi-disc clutch
Reduction ratio (Ahead)	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight kg	632

Performance curves

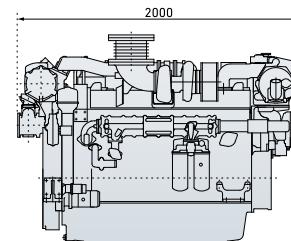


Dimensions [mm]

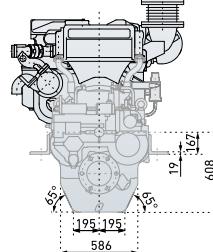
■ Engine only / Front view



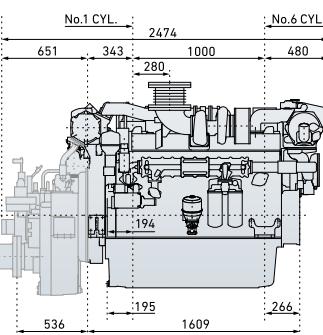
■ Engine only / Right side view [Shallow sump]



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



Manina, 2001

6AYEM-ET [IMO Tier II+ Tier III]

Continuous-rating 555kW [755mhp]

M-rating 610kW [829mhp]



- Common Rail system
- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- IMO Tier II and Tier III emissions regulations.

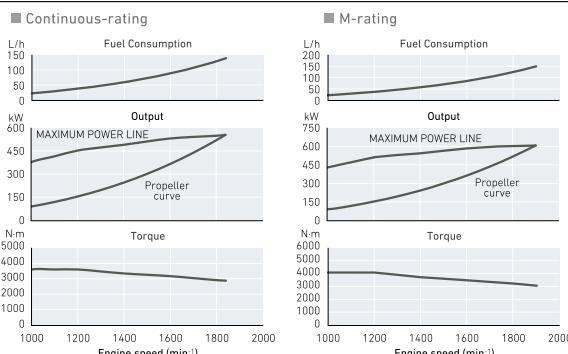
Specifications

Model	6AYEM-ET
Number of cylinders	6 in-line
Bore x stroke	mm 155 x 180
Displacement	lit. 20.379
Rated output	kW[mhp]/rpm C : 555[755]/1840 M : 610[829]/1900
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #0 and 18 in.
Dry mass	kg 2418 [without marine gear]
Dimensions [LxWxH]	mm 2000x1305x1531

Marine gear specifications / Engine model : 6AYEM-ET

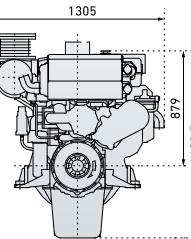
Model	YXH-240-7
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight	kg 632

Performance curves

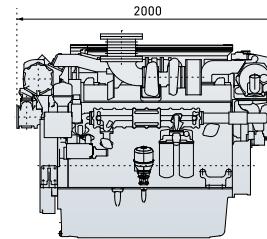


Dimensions (mm)

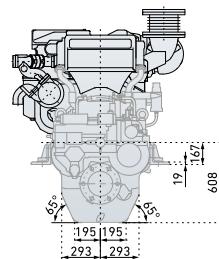
■ Engine only / Front view



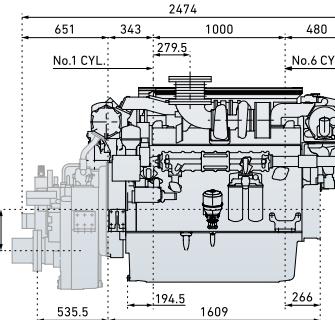
■ Engine only / Right side view



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



– Marine gear

6AYEM-GT

L-rating 670kW [911mhp] [IMO Tier II + Tier III]

S-rating 737kW [1002mhp]

S-rating 749kW [1018mhp] [IMO Tier II + Tier III] [EPA Tier4]



- Common Rail system
- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- IMO Tier II and Tier III emissions regulations.

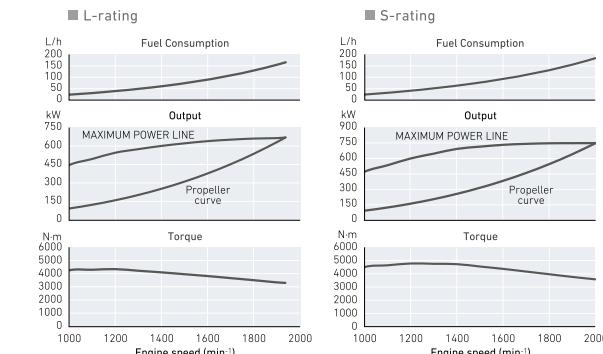
Specifications

Model	6AYEM-GT
Number of cylinders	6 in-line
Bore x stroke mm	155 x 180
Displacement lit.	20.379
Rated output kW[mhp]/rpm	L: 670[911]/1938 S: 737[1002]/2000, S: 749[1018]/2000
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #0 and 18 in.
Dry mass kg	2418 [without marine gear]
Dimensions [L×W×H] mm	2000×1305×1531

Marine gear specifications / Engine model : 6AYEM-GT

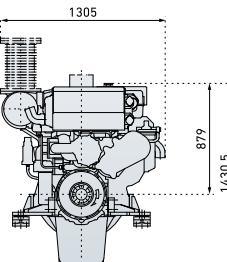
Model	YXH-240-7
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight kg	632

Performance curves

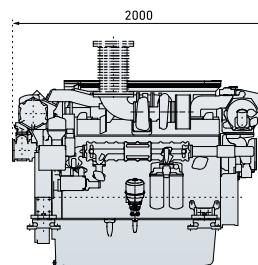


Dimensions [mm]

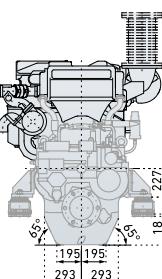
■ Engine only / Front view



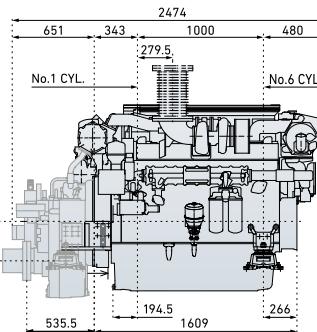
■ Engine only / Right side view [Shallow sump]



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



– Marine gear

12AYM-WST

H-rating 882kW [1199mhp]

H-rating 1030kW [1400mhp]

- V-type, 12-cylinder, direct injection, heat exchanger & keel cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Conform to IMO Tier II emissions regulations.



Specifications

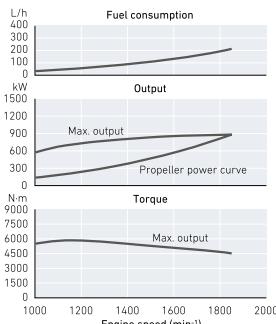
Model	12AYM-WST H-rating
Number of cylinders	12 V-type
Bore x stroke	mm 155 x 180
Displacement	lit. 40.76
Rated output	kW[mhp]/rpm
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW] x 1 or air motor x 2
Cooling system	Constant high temperature cooling system
Size of flywheel housing and flywheel	SAE #00 and 21 in.
Dry mass	kg 4950 [without marine gear]
Dimensions [LxWxH]	mm 2759x1644x1707

Marine gear specifications / Engine model : 12AYM-WST H-rating

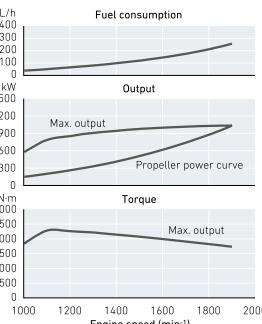
Model	YXH-500-1	YXH-500L-1
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	2.53 3.04 3.48	3.57 4.07 4.48 4.96
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	kg 970	1620
Live PTO	-	SAE B-B, B, C-C, C

Performance curves

■ H rating 882kW [1199mhp]

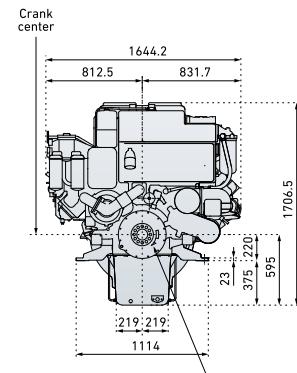


■ H rating 1030kW [1400mhp]

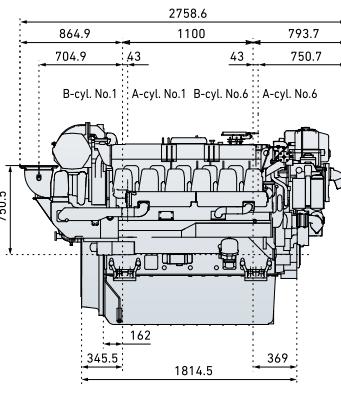


Dimensions [mm]

■ Engine only / Front view



■ Engine only / Right side view



Rotation of crankshaft

12AYM-WET

H-rating 1140kW [1550mhp]
M-rating 1220kW [1659mhp]

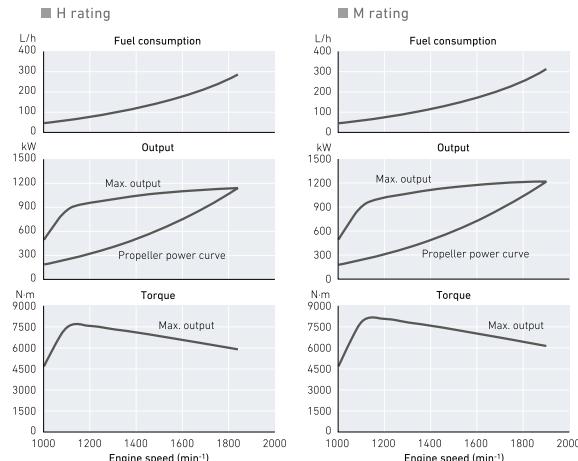
- V-type, 12-cylinder, direct injection, heat exchanger & keel cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Conform to IMO Tier II emissions regulations.



Specifications

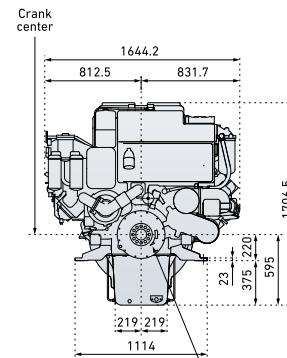
Model	12AYM-WET H-rating / M-rating
Number of cylinders	12 V-type
Bore x stroke	mm 155 x 180
Displacement	lit. 40.76
Rated output	kW[mhp]/rpm H: 1140[1550]/1840 M: 1220[1659]/1900
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW] x 1 or air motor x 2
Cooling system	Constant high temperature cooling system
Size of flywheel housing and flywheel	SAE #00 and 21 in.
Dry mass	kg 4950 [without marine gear]
Dimensions [LxWxH]	mm 2759x1644x1707

Performance curves

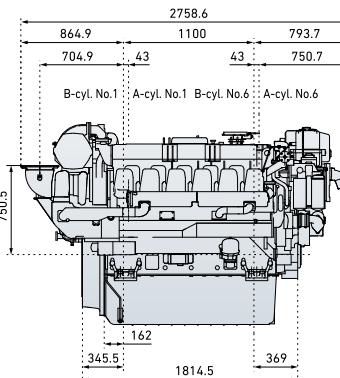


Dimensions [mm]

■ Engine only / Front view



■ Engine only / Right side view



12AYM-WGT

L-rating 1340kW [1822mhp]

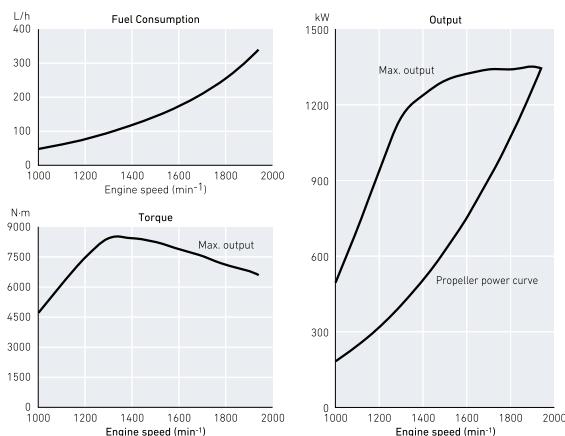
- V-type, 12-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Conform to IMO Tier II emissions regulations.



Specifications

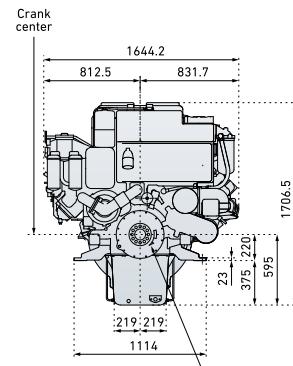
Model	12AYM-WGT L-rating
Number of cylinders	12 V-type
Bore x stroke	155 x 180
Displacement	40.76
Rated output	kW[mhp]/rpm
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW] x 1 or air motor x 2
Cooling system	Constant high temperature cooling system
Size of flywheel housing and flywheel	SAE #00 and 21 in.
Dry mass	kg
Dimensions [LxWxH]	mm

Performance curves

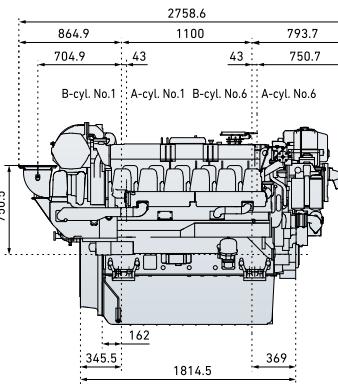


Dimensions [mm]

■ Engine only / Front view



■ Engine only / Right side view



12AYEM-ST [EPA Tier III][IMO Tier II&III]

Continuous-rating 1030kW [1400mhp]



- V-type, 12-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II and Tier III emissions regulations.

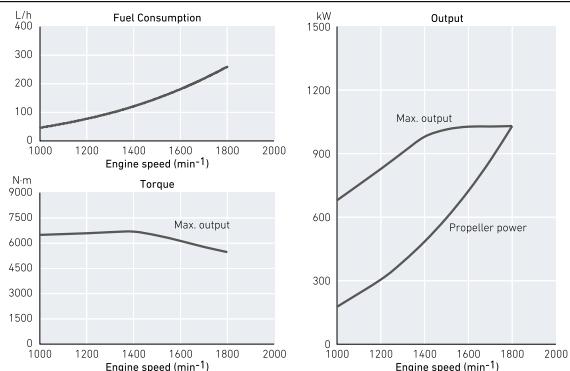
Specifications

Model	12AYEM-ST C-rating	
Number of cylinders	12 V-type	
Bore x stroke	mm	155 x 180
Displacement	lit.	40.76
Rated output	kW[mhp]/rpm	C : 1030[1400]/1800
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 8.0kW] x 1	
Cooling system	Constant high temperature cooling system	
Size of flywheel housing and flywheel	SAE #00 and 21 in.	
Dry mass	kg	4780 [without marine gear]
Dimensions [LxWxH]	mm	2743x1650x1707

Marine gear specifications / Engine model : 12AYEM-ST C-rating

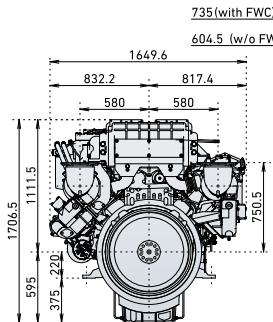
Model	YXH-500-3	YXH-500L-3
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	2.53 3.04 3.48	3.57 4.07 4.48 4.96
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	kg	970 1620
Live PTO	-	SAE B-B, B, C-C, C

Performance curves

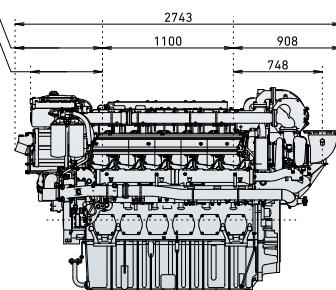


Dimensions [mm]

■ Engine only / Front view



■ Engine only / Right side view



12AYEM-ET [EPA Tier III][IMO Tier II & III]

H-rating **1140kW [1550mhp]**
M-rating **1220kW [1659mhp]**

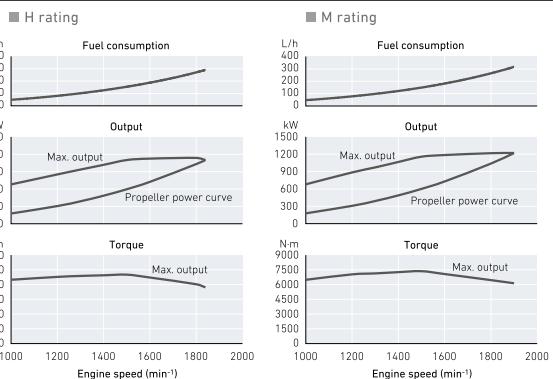


- V-type, 12-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II and Tier III emissions regulations.

Specifications

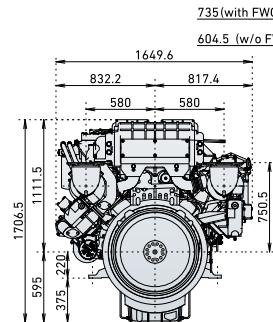
Model	12AYEM-ET H-rating / M-rating
Number of cylinders	12 V-type
Bore x stroke	mm 155 x 180
Displacement	lit. 40.76
Rated output	kW[mhp]/rpm H: 1140[1840]/1840 M: 1220[1659]/1900
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW] x 1
Cooling system	Constant high temperature cooling system
Size of flywheel housing and flywheel	SAE #00 and 21 in.
Dry mass	kg 4780 [without marine gear]
Dimensions [LxWxH]	mm 2743x1650x1707

Performance curves

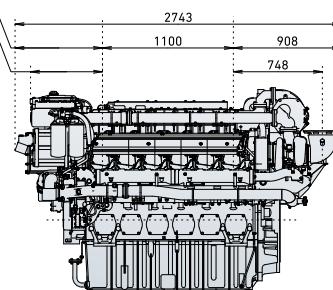


Dimensions [mm]

■ Engine only / Front view



■ Engine only / Right side view



12AYEM-GT [EPA Tier III][IMO Tier II&III]

L-rating 1340kW [1822mhp]

- V-type, 12-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II and Tier III emissions regulations.



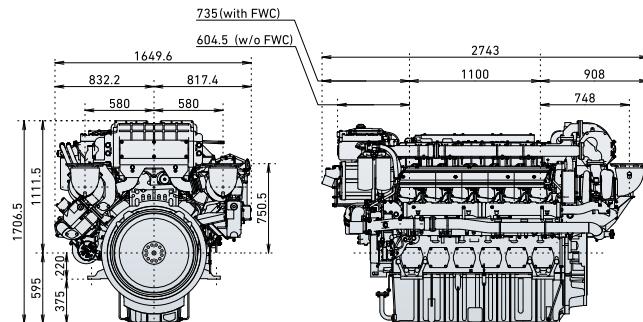
Specifications

Model	12AYEM-GT L-rating
Number of cylinders	12 V-type
Bore x stroke	mm 155 x 180
Displacement	lit. 40.76
Rated output	kW[mhp]/rpm L : 1340[1822]/1940
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW] x 1
Cooling system	Constant high temperature cooling system
Size of flywheel housing and flywheel	SAE #00 and 21 in.
Dry mass	kg 4780 [without marine gear]
Dimensions [LxWxH]	mm 2743x1650x1707

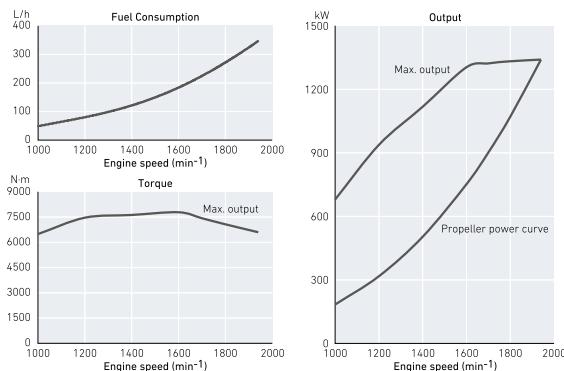
Dimensions (mm)

■ Engine only / Front view

■ Engine only / Right side view



Performance curves

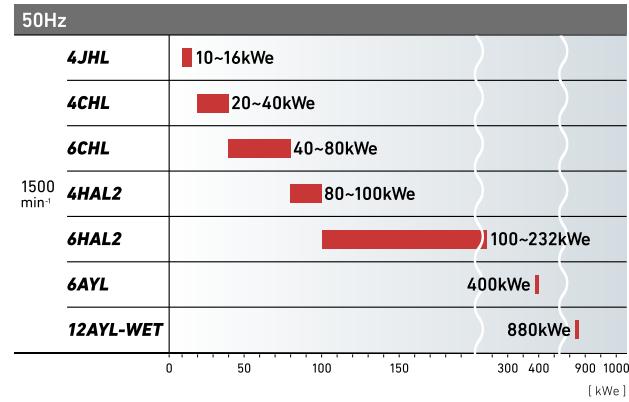
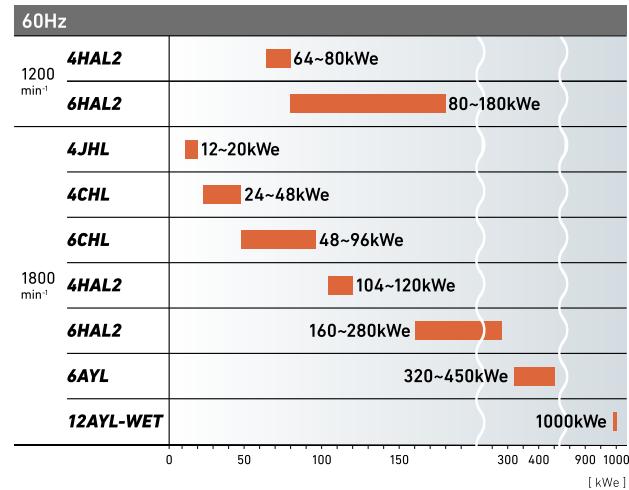


MARINE AUXILIARY

DIESEL ENGINE LINE-UP



Generator Capacity



4CHL

Generator Capacity

20~48kWe



Specifications

Engine Model	4CHL-N		4CHL-TN		4CHL-TNA				
Type	Vertical, Water-cooled, 4-stroke Diesel								
No. of Cylinders	In-line 4								
Cylinder Bore x Stroke mm	105x125								
Continuous Rated Output kW[PS]	27.9 [38]	36.8 [50]	36.8 [50]	45.6 [62]	45.6 [62]	54.4 [74]			
Generator Capacity kWe[kVA]	20 [25]	24 [30]	24 [30]	32 [40]	32 [50]	40 [50]	48 [60]		
Engine Speed min ⁻¹	1500	1800	1500	1800	1500	1800			
Combustion system	Direct injection								
Starting system	Electric Starting or Air-motor starting								
Dry Weight kg	500		520						
Total Weight [Gen.Set] kg	940	990	1040		1090				

The engine dry weight may differ depending upon the specifications and attached accessories.

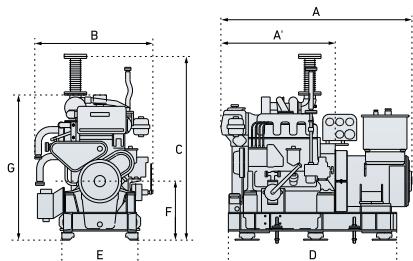
Above generator capacity will vary according to actual generator efficiency.

- In case of 4CHL-TNA, continuous load operation shall be 80% or below of rated power, and 100% load operation shall be within 2 hours per 12 hours.

Dimensions [mm]

Models	4CHL-N	4CHL-TN	4CHL-TNA
A	1552	1532	1572
A'	917	917	917
B	947	947	947
C	1350.5	1473	1473
D	1350	1350	1420
E	610	610	610
F	473	473	473
G	1164	1164	1164

Depending on the specifications or options that have been chosen, your model may differ slightly from the one in the photograph and outline.



G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

6CHL

Generator Capacity

40~96kWe



Specifications

Engine Model	6CHL-N		6CHL-TN		6CHL-TNA		6CHL-HTN		6CHL-HTNA							
Type	Vertical, Water-cooled, 4-stroke Diesel					In-line 6										
No. of Cylinders	In-line 6					105x125										
Cylinder Bore x Stroke mm	45.6 [62]	54.4 [74]	54.4 [74]	73.6 [100]	67.7 [92]	89.7 [122]	73.6 [100]	88.3 [120]	91.9 [125]	107 [145]						
Continuous Rated Output kW[PS]	40 [50]	48 [60]	48 [60]	64 [80]	60 [75]	80 [100]	64 [80]	80 [100]	80 [100]	96 [120]						
Generator Capacity kWe[kVA]	20 [25]	24 [30]	24 [30]	32 [40]	32 [50]	40 [60]	40 [60]	48 [80]	48 [80]	56 [100]						
Engine Speed min ⁻¹	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800						
Combustion system	Direct injection															
Starting system	Electric Starting or Air-motor starting															
Dry Weight kg	625	645	645	675	620	640	640	660	660	675						
Total Weight [Gen.Set] kg	1220	1350	1350	1380	1220	1350	1350	1380	1380	1450						

The engine dry weight may differ depending upon the specifications and attached accessories.

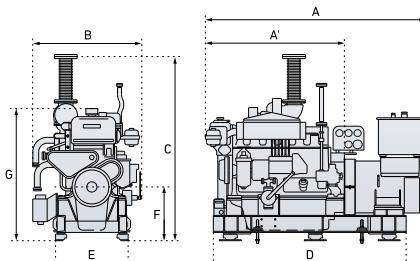
Above generator capacity will vary according to actual generator efficiency.

- In case of 6CHL-TNA / 6CHL-HTNA, continuous load operation shall be 80% or below of rated power, and 100% load operation shall be within 2 hours per 12 hours.

Dimensions [mm]

Models	6CHL-N	6CHL-TN	6CHL-TNA	6CHL-HTN	6CHL-HTNA
A	1861	1926	1926	1946	2051
A'	1206	1206	1206	1256	1256
B	962	962	962	962	962
C	1382	1624	1624	1624	1634
D	1650	1700	1700	1700	1900
E	640	640	640	640	640
F	474	474	474	474	484
G	1165	1165	1165	1165	1175

Depending on the specifications or options that have been chosen, your model may differ slightly from the one in the photograph and outline.



G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

4HAL2

Generator Capacity
64~120kWe



Specifications

Engine Model	4HAL2-TN1		4HAL2-TN		4HAL2-WT			
Type	Vertical, Water-cooled, 4-stroke Diesel							
No. of Cylinders	In-line 4							
Cylinder Bore x Stroke mm	130x165							
Continuous Rated Output kW(PS)	72 [98]	89 [121]	116 [157]	90 [122]	115 [156]	135 [183]		
Generator Capacity kWe(kVA)	64 [80]	80 [100]	104 [130]	80 [100]	100 [125]	120 [150]		
Engine Speed min ⁻¹	1200	1500	1800	1200	1500	1800		
Combustion system	Direct injection							
Starting system	Electric Starting or Air-motor starting							
Dry Weight kg	1030							
Total Weight [Gen.Set] kg	1855							

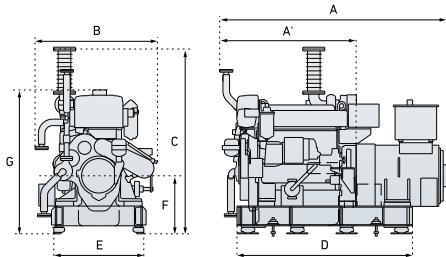
The engine dry weight may differ depending upon the specifications and attached accessories.

Above generator capacity will vary according to actual generator efficiency.

Dimensions [mm]

Models	4HAL2-TN1	4HAL2-TN	4HAL2-WT
A	2070	2070	2070
A'	1245	1245	1245
B	1117	1117	1117
C	1685	1685	1685
D	1600	1600	1600
E	820	820	820
F	529	529	529
G	1312	1312	1312

Depending on the specifications or options that have been chosen,
your model may differ slightly from the one in the photograph and outline.



G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

6HAL2 [IMO Tier II&III]

Generator Capacity
80~280kWe



Specifications

Engine Model	6HAL2-N	6HAL2-TN	6HAL2-WT	6HAL2-WHT	6HAL2-WDT						
Type	Vertical, Water-cooled, 4-stroke Diesel										
No. of Cylinders	In-line 6										
Cylinder Bore x Stroke mm	130x165										
Continuous Rated Output kW(PS)	90 [122]	115 [156]	120 [163]	150 [204]	180 [244]	160 [217]	220 [299]	265 [360]	200 [271]	255 [346]	305 [414]
Generator Capacity kWe(kVA)	80 [100]	100 [125]	104 [130]	136 [170]	160 [200]	144 [180]	200 [250]	240 [300]	180 [225]	232 [290]	280 [350]
Engine Speed min ⁻¹	1200	1500	1200	1500	1800	1200	1500	1800	1200	1500	1800
Combustion system	Direct injection										
Starting system	Electric Starting or Air-motor starting										
Dry Weight kg	1430		1422		1437		1447				
Total Weight [Gen.Set] kg	2230		2410		2750		2850				

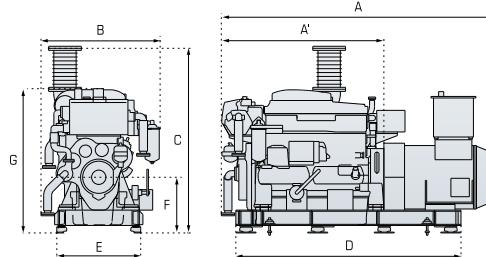
The engine dry weight may differ depending upon the specifications and attached accessories.

Above generator capacity will vary according to actual generator efficiency.

Dimensions [mm]

Models	6HAL2-N	6HAL2-TN	6HAL2-WT	6HAL2-WHT	6HAL2-WDT
A	2499	2499	2499	2574	2684
A'	1589	1589	1589	1589	1589
B	1164	1164	1164	1164	1164
C	1654	1774	1774	1804	1804
D	2100	2100	2100	2200	2200
E	820	820	820	820	820
F	544	544	544	544	544
G	1327	1327	1327	1327	1327

Depending on the specifications or options that have been chosen,
your model may differ slightly from the one in the photograph and outline.



G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

6AYL [IMO Tier II+ Tier III]

Generator Capacity
320~450kWe



Specifications

Engine Model	6AYL-WST		6AYL-WET
Type	Vertical, Water-cooled, 4-stroke Diesel		
No. of Cylinders	In-line 6		
Cylinder Bore x Stroke mm		155x180	
Continuous Rated Output kW[PS]	353 [480]	438 [596]	491 [668]
Generator Capacity kWe[kVA]	320 [400]	400 [500]	450 [562.5]
Engine Speed min ⁻¹	1800	1500	1800
Combustion system	Direct injection		
Starting system	Electric Starting or Air-motor starting		
Dry Weight kg	2475		2475
Total Weight [Gen.Set] kg	4600		4750

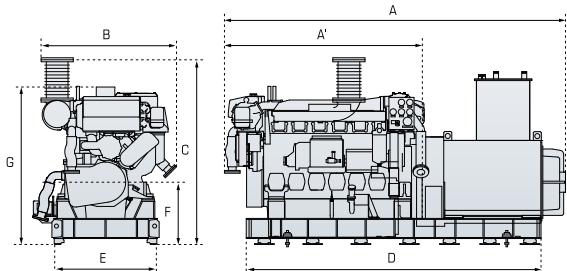
The engine dry weight may differ depending upon the specifications and attached accessories.

Above generator capacity will vary according to actual generator efficiency.

Dimensions [mm]

Models	6AYL-WST	6AYL-WET
A	2970	3040
A'	1860	1860
B	1445	1445
C	1836	1836
D	2540	2600
E	1030	1030
F	619	619
G	1565	1565

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G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

12AYL-WET [IMO Tier II+ Tier III]

Generator Capacity
880~1000kWe



Specifications

Engine Model	12AYL-WET	
Type	Vertical, Water-cooled, 4-stroke Diesel	
No. of Cylinders	V-type 12	
Cylinder Bore x Stroke mm		155x180
Continuous Rated Output kW[PS]	950 [1290]	1073 [1459]
Generator Capacity kWe[kVA]	880 [1100]	1000 [1250]
Engine Speed min ⁻¹	1500	1800
Combustion system	Direct injection	
Starting system	Electric Starting or Air-motor starting	
Dry Weight kg		4950
Total Weight [Gen.Set] kg		9300

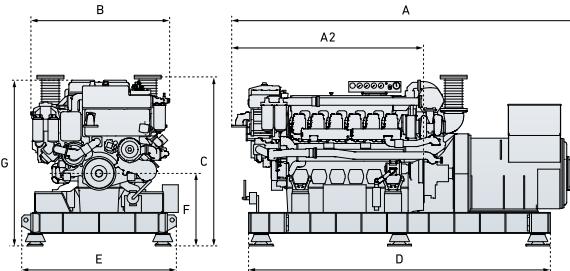
The engine dry weight may differ depending upon the specifications and attached accessories.

Above generator capacity will vary according to actual generator efficiency.

Dimensions [mm]

Models	12AYL-WET
A	4155.2
A'	2647.4
B	1655
C	2016
D	3500
E	1867
F	865.5
G	995

Depending on the specifications or options that have been chosen,
your model may differ slightly from the one in the photograph and outline.



G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

• The various usage conditions, usage purposes, functions, terminology and expressions given in this catalogue are based on YANMAR standards.

6HAL2-H

Generator Capacity
100~250kWe



Specifications

Engine Model	6HAL2-H	6HAL2-TH	6HAL2-HTH	6HAL2-DTH
Type	Vertical, Water-cooled, 4-stroke Diesel			
No. of Cylinders	In-line 6			
Cylinder Bore x Stroke mm	130x165			
Continuous Rated Output kW[PS]	115 [156]	128 [174]	150 [204]	202 [275]
Generator Capacity kWe[kVA]	100 [125]	112 [140]	132 [165]	180 [225]
Engine Speed min ⁻¹	1500	1800	1500	1800
Combustion system	Direct injection			
Starting system	Electric Starting or Air-motor starting			
Dry Weight kg	1335	1370	1470	1470
Total Weight [Gen.Set] kg	2270	2550	2790	2950

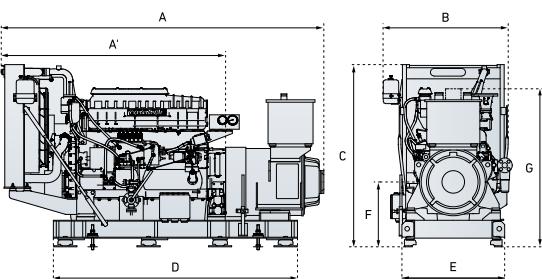
The engine dry weight may differ depending upon the specifications and attached accessories.

Above generator capacity will vary according to actual generator efficiency.

Dimensions [mm]

Models	6HAL2-H	6HAL2-TH	6HAL2-HTH	6HAL2-DTH
A	2709	2819	2868.5	2978.5
A'	1884	1884	1884	1884
B	1085	1096	1168	1168
C	1684	1782	1812	1812
D	2050	2100	2161.5	2161.5
E	810	810	810	810
F	544	544	544	544
G	1327	1327	1327	1327

Depending on the specifications or options that have been chosen,
your model may differ slightly from the one in the photograph and outline.



G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

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