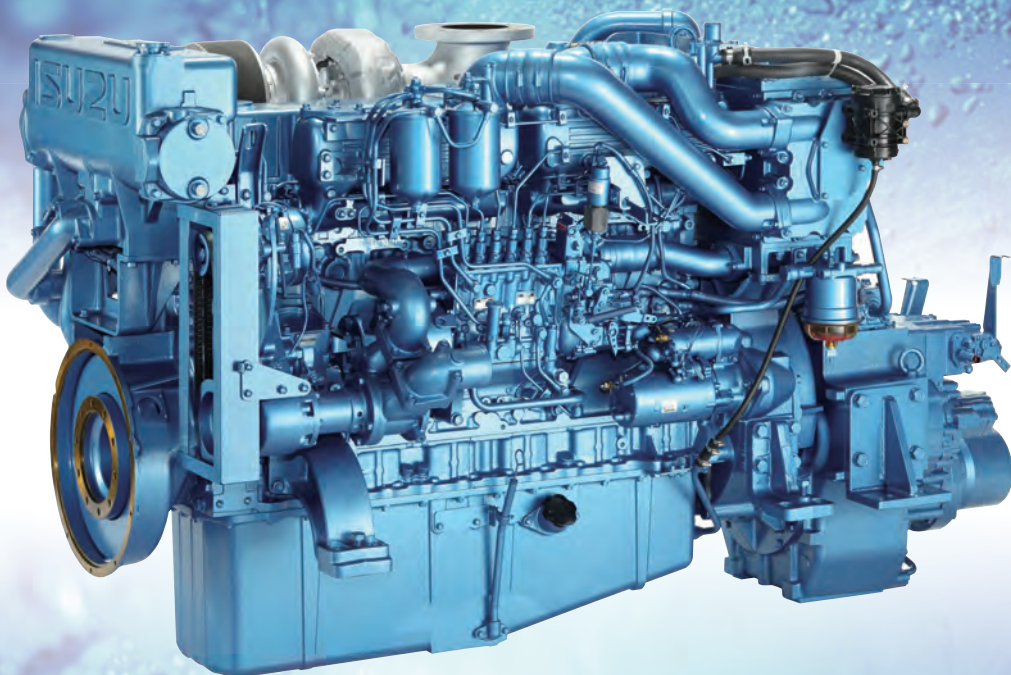


ISUZU MARINE

PRODUCT GUIDE



"JAPANESE QUALITY"

**It is our pride.
We are committed to
providing optimal products and service
for our customer.**

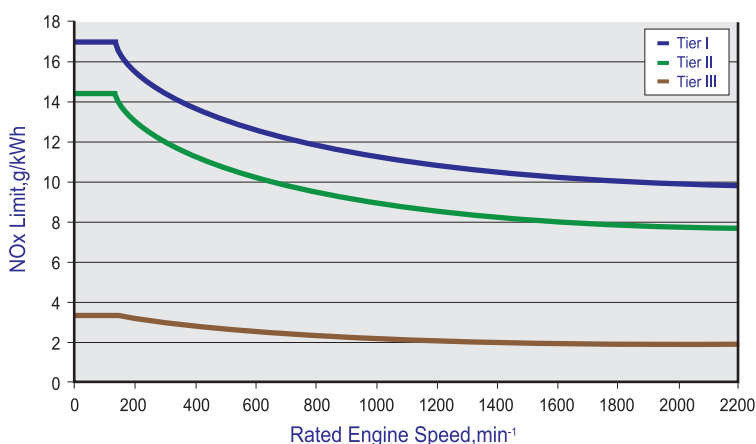
The prevention of pollution by ships has become one of the major global issues. The regulation of NOx emission levels were set for marine diesel engines greater than 130kW installed on vessels constructed on or after January 1st 2000. And "Tier II/III" standards were set in October 2008 for the engines installed on vessels constructed on or after January 2011.

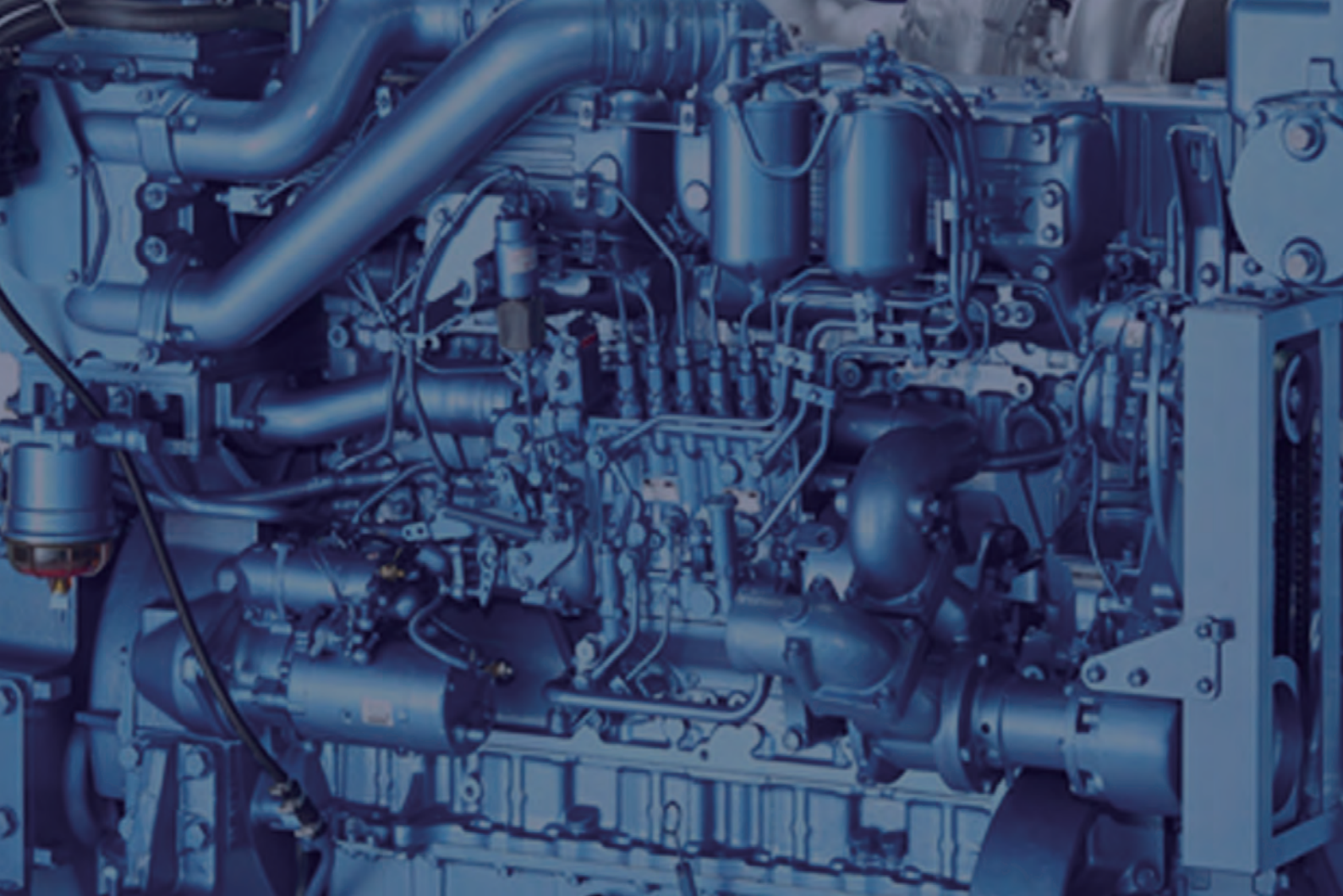
Isuzu Marine Engine Products meet IMO(International Maritime Organization) Tier II emission regulations by Isuzu Diesel technologies which are derived from its automotive engines.

In order to leave behind a beautiful earth to our children, as citizens of this earth, Isuzu Marine Engines contribute greatly to environmental protection.



IMO NOx Emission Limits





Taiwan



UAE



Australia

At Isuzu Motors Engine Sales Inc. quality comes first. For the peace of mind of customers around the world, the Manufacturing Division executes a strict quality control system which conforms to ISO9001 international quality control standards backed up with over 60 years' experience and is derived from the quality of Isuzu Motors. Isuzu marine engines are originally designed for marine applications and all models are manufactured in Japan.



History.....

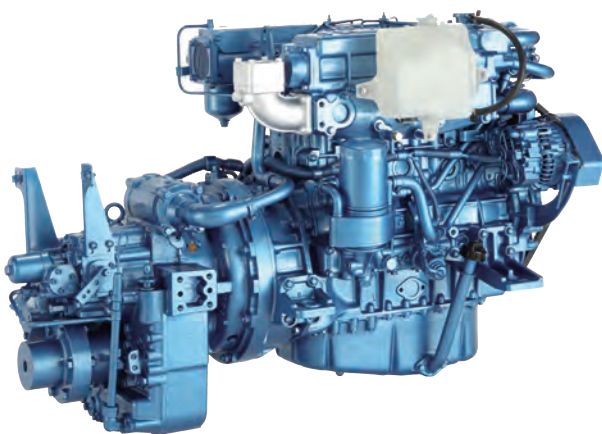
- 1947 Founded as a manufacturer, distributor, and repairer of marine diesel engines, marine generator sets and marine gears.
- 1951 Eighty-eight(88) horsepower "DA45" type, the compact high-speed engine was first developed in Japan in cooperation with Isuzu Motors Limited..
- 1972 Isuzu Motors Limited acquired in capital and the company name was changed from Tokyo Boat Limited to Isuzu Marine Engine Inc..
- 1973 Started the product supply in the Taiwanese market as our first overseas market with "UM2AB1" & "UM3AB1".
- 1977 Started the product supply in the European market, and then into Norway, Sweden, Greece and Portugal.
- 1985 Started the product supply in the Middle East market.
- 2001 "4EE2TMC" type for pleasure boat, developed and started commercial production at Isuzu diesel engine plant in Poland.
- 2007 Common-railed marine engine was first developed in Japan.
- 2008 Certified ISO 14001 and ISO9001.
- 2010 Certified IMO Tier II emission regulation on all models.
- 2013 The company name was changed from Isuzu Marine Engine Inc. to Isuzu Motors Engine Sales Inc.

PRODUCT INTRODUCTION



Iceland

UM4JB1 49kW



ACCESSORIES

Standard.....

- Installation kit
- Battery relay
- Extension harness (3m)
- Seawater pump impeller *
- Bilge pump
- Control head
- Instrument panel
- Tool kit
- Owner's manual
- * spare parts

Option.....

- Extension harness (3m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)
- Kingston valve

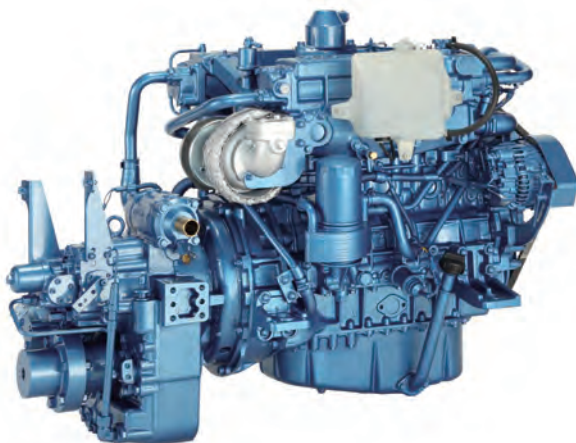
ENGINE SPECIFICATIONS

Configuration		4-cylinder, vertical in-line, 4-cycle deisel engine
Bore x Stroke	mm (in)	93 x 102 (3.66 x 4.02)
Displacement	Lit. (cid)	2.771 (169)
Rated output	kW(PS)/min ⁻¹	Medium duty 49 (67) / 3200
Application		Commercial use
Governor type		Mechanical
Combustion type		Direct injection
Aspiration		Natural aspiration
Engine size	LxWxH mm	Engine 768×629.5×737
		with MGN35A-5 1199.5×629.5×811
Engine weight	kg (lb)	Engine 290 (639)
		with MGN35A-5 445 (981)
Fuel used		Diesel fuel
Starter	V-kW	24 - 3.2
Alternator	V-A	24 - 30
Lubrication method		Full flow pressure circulation
Cooling method		Freshwater, full flow pressure circulation (Seawater, indirect)
Heat exchanger (seawater circulation)		Multi-tube type (freshwater→seawater)
Intercooler		—
Rotation direction	Crankshaft	Right (clockwise) viewed from front of engine
	Propeller shaft	Right (clockwise) viewed from stern
Idling speed	min ⁻¹	500~550
Marine gear	Marine Gear Model	MGN35A-5
	Clutch type	Wet, multi-plate hydraulic type
	Reverse type	Constant-mesh type gear
	Reduction ratio	2.56, 3.05, 3.45

Specifications subject to change without notice

UM4JB1TCX

85kW



ACCESSORIES

Standard

- Installation kit
 - Battery relay
 - Extension harness (3m)
 - Seawater pump impeller *
 - Bilge pump
 - Control head
 - Instrument panel
 - Tool kit
 - Owner's manual
- * spare parts

Option

- Extension harness (3m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)
- Kingston valve

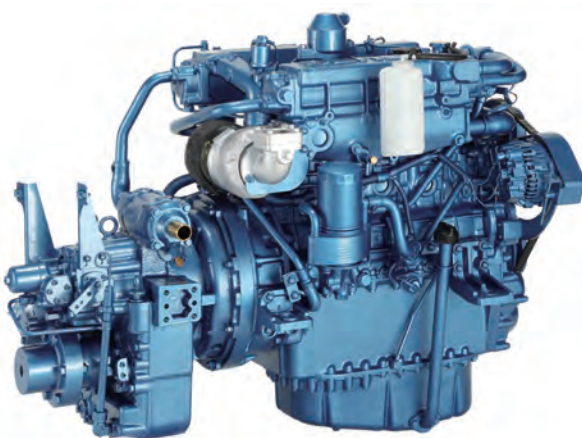
ENGINE SPECIFICATIONS

Configuration		4-cylinder, vertical in-line, 4-cycle deisel engine	
Bore x Stroke		mm (in)	93 x 102 (3.66 x 4.02)
Displacement		Lit. (cid)	2.771 (169)
Rated output	kW(PS)/min ⁻¹	Medium duty	81 (110) / 3100
		Light duty	85 (115) / 3200
Application		Commercial use	
Governor type		Mechanical	
Combustion type		Direct injection	
Aspiration		Turbo charged / Intercooler	
Engine size	LxWxH mm	Engine	773x634.5x790
		with MGN35A-5	1199.5x634.5x864
Engine weight	kg (lb)	Engine	298 (657)
		with MGN35A-5	453 (998)
Fuel used		Diesel fuel	
Starter		V-kW	24 - 3.2
Alternator		V-A	24 - 30
Lubrication method		Full flow pressure circulation	
Cooling method		Freshwater, full flow pressure circulation (Seawater, indirect)	
Heat exchanger (seawater circulation)		Multi-tube type (freshwater→seawater)	
Intercooler		Multi-tube type (seawater circulation)	
Rotation direction	Crankshaft		Right (clockwise) viewed from front of engine
	Propeller shaft		Right (clockwise) viewed from stern
Idling speed		min ⁻¹	500~550
Marine gear	Marine Gear Model		MGN35A-5
	Clutch type		Wet, multi-plate hydraulic type
	Reverse type		Constant-mesh type gear
	Reduction ratio		2.56, 3.05, 3.45

Specifications subject to change without notice

UM4JG1TCX

101kW



ACCESSORIES

Standard

- Installation kit
 - Battery relay
 - Extension harness (3m)
 - Seawater pump impeller *
 - Bilge pump
 - Control head
 - Instrument panel
 - Tool kit
 - Owner's manual
- * spare parts

Option

- Extension harness (3m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)
- Kingston valve

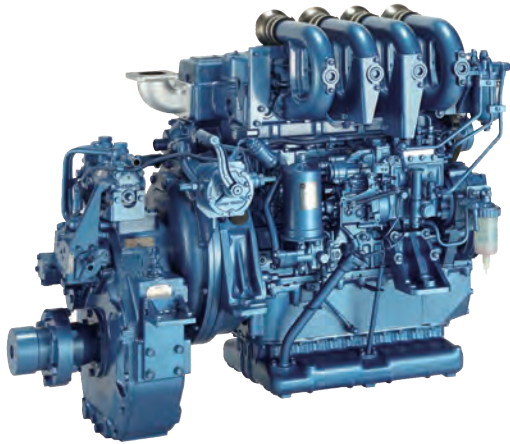
ENGINE SPECIFICATIONS

Configuration		4-cylinder, vertical in-line, 4-cycle deisel engine	
Bore x Stroke		mm (in)	95.4x107 (3.75x4.21)
Displacement		Lit. (cid)	3.059 (186)
Rated output	kW(PS)/min ⁻¹	Medium duty	94 (128) / 3100
		Light duty	101 (138) / 3200
Application		Commercial use	
Governor type		Mechanical	
Combustion type		Direct injection	
Aspiration		Turbo charged / Intercooler	
Engine size	LxWxH mm	Engine	810x672x891
		with MGN35A-5	1266.5x672x891
Engine weight	kg (lb)	Engine	324 (714)
		with MGN35A-5	479 (1,056)
Fuel used		Diesel fuel	
Starter		V-kW	24 - 3.2
Alternator		V-A	24 - 30
Lubrication method		Full flow pressure circulation	
Cooling method		Freshwater, full flow pressure circulation (Seawater, indirect)	
Heat exchanger (seawater circulation)		Multi-tube type (freshwater→seawater)	
Intercooler		Multi-tube type (seawater circulation)	
Rotation direction	Crankshaft		Right (clockwise) viewed from front of engine
	Propeller shaft		Right (clockwise) viewed from stern
Idling speed		min ⁻¹	500~550
Marine gear	Marine Gear Model		MGN35A-5
	Clutch type		Wet, multi-plate hydraulic type
	Reverse type		Constant-mesh type gear
	Reduction ratio		2.56, 3.05, 3.45

Specifications subject to change without notice

UM4BG1Z

81kW



ACCESSORIES

Standard

- Installation kit
- Battery relay
- Extension harness (3m)
- Seawater pump impeller *
- Bilge pump
- Control head
- Instrument panel
- Oil drain pump
- Blow-by pipe
- Tool kit
- Owner's manual
- * spare parts

Option

- Extension harness (3m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)
- Kingston valve

ENGINE SPECIFICATIONS

Configuration		4-cylinder, vertical in-line, 4-cycle deisel engine	
Bore x Stroke		mm (in)	105 x 125 (4.13 x 4.92)
Displacement		Lit. (cid)	4,329 (264)
Rated output		kW(PS)/min ¹ Medium duty	81 (110) / 2900
Application		Commercial use	
Governor type		Mechanical	
Combustion type		Direct injection	
Aspiration		Natural aspiration	
Engine size	LxWxH mm	Engine	918×761×938.5
		with MGN35A-1	1268×761×938.5
Engine weight	kg (lb)	Engine	436 (961)
		with MGN35A-1	589 (1,298)
Fuel used		Diesel fuel	
Starter		V-kW	24 - 4.5
Alternator		V-A	24 - 30
Lubrication method		Full flow pressure circulation	
Cooling method		Freshwater, full flow pressure circulation (Seawater, indirect)	
Heat exchanger (seawater circulation)		Multi-tube type (freshwater→seawater)	
Intercooler		—	
Rotation direction	Crankshaft		Right (clockwise) viewed from front of engine
	Propeller shaft		Right (clockwise) viewed from stern
Idling speed		min ¹	500~550
Marine gear	Marine Gear Model		MGN35A-1
	Clutch type		Wet, multi-plate hydraulic type
	Reverse type		Constant-mesh type gear
	Reduction ratio		2.56, 3.05, 3.45

Specifications subject to change without notice

UM4BG1TCX

147kW



ACCESSORIES

Standard

- Installation kit
- Battery relay
- Extension harness (3m)
- Seawater pump impeller *
- Bilge pump
- Control head
- Instrument panel
- Oil drain pump
- Blow-by pipe
- Tool kit
- Owner's manual
- * spare parts

Option

- Extension harness (3m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)
- Kingston valve

ENGINE SPECIFICATIONS

Configuration		4-cylinder, vertical in-line, 4-cycle deisel engine	
Bore x Stroke		mm (in)	105 x 125 (4.13 x 4.92)
Displacement		Lit. (cid)	4,329 (264)
Rated output		kW(PS)/min ¹ Medium duty Light duty	134 (182) / 2700 147 (200) / 2800
Application		Commercial use	
Governor type		Mechanical	
Combustion type		Direct injection	
Aspiration		Turbo charged / Intercooler	
Exhaust gas status		IMO Tier II	
Engine size	LxWxH mm	Engine	1057×764×941
		with MGN35A-1	1283×764×941
Engine weight	kg (lb)	Engine	515 (1,135)
		with MGN35A-1	668 (1,473)
Fuel used		Diesel fuel	
Starter		V-kW	24 - 4.5
Alternator		V-A	24 - 50
Lubrication method		Full flow pressure circulation	
Cooling method		Freshwater, full flow pressure circulation (Seawater, indirect)	
Heat exchanger (seawater circulation)		Multi-tube type (freshwater→seawater)	
Intercooler		Multi-tube type (seawater circulation)	
Rotation direction	Crankshaft		Right (clockwise) viewed from front of engine
	Propeller shaft		Right (clockwise) viewed from stern
Idling speed		min ¹	550
Marine gear	Marine Gear Model		MGN35A-1
	Clutch type		Wet, Multi-plate hydraulic type
	Reverse type		Constant-mesh type gear
	Reduction ratio		2.56, 3.05, 3.45

Specifications subject to change without notice

UM6BG1TC

169kW



ACCESSORIES

Standard

- Installation kit
- Battery relay
- Extension harness (5m)
- Seawater pump impeller *
- Bilge pump
- Control head
- Instrument panel
- Oil drain pump
- Blow-by pipe
- V-belt *
- Tool kit
- Owner's manual
- * spare parts

Option

- Extension harness (5m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)
- Kingston valve

ENGINE SPECIFICATIONS

Configuration		6-cylinder, vertical in-line, 4-cycle deisel engine	
Bore x Stroke		mm (in) 105 x 125 (4,13 x 4,92)	
Displacement		Lit. (cid) 6,494 (396)	
Rated output	kW(PS)/min ⁻¹	Medium duty	154 (210) / 2600
		Light duty	169 (230) / 2700
Application		Commercial use	
Governor type		Mechanical	
Combustion type		Direct injection	
Aspiration		Turbo charged / Intercooler	
Exhaust gas status		IMO Tier II	
Engine size	LxWxH mm	Engine	1264×818×969
		with MGN40E-1A	1505,5×818×975,5
Engine weight	kg (lb)	Engine	600 (1,323)
		with MGN40E-1A	775 (1,709)
Fuel used		Diesel fuel	
Starter		V-kW 24 - 4.5	
Alternator		V-A 24 - 40	
Lubrication method		Full flow pressure circulation	
Cooling method		Freshwater, full flow pressure circulation (Seawater, indirect)	
Heat exchanger (seawater circulation)		Multi-tube type (freshwater→seawater)	
Intercooler		Multi-tube type (seawater circulation)	
Rotation direction	Crankshaft	Right (clockwise) viewed from front of engine	
	Propeller shaft	Right (clockwise) viewed from stern	
Idling speed		min ⁻¹ 500	
Marine gear	Marine Gear Model	MGN40E-1A	
	Clutch type	Wet, Multi-plate hydraulic type	
	Reverse type	Constant-mesh type gear	
	Reduction ratio	2,33, 2,91, 3,45	

Specifications subject to change without notice

UM6BG1TCX

210kW



ACCESSORIES

Standard

- Installation kit
- Battery relay
- Extension harness (5m)
- Seawater pump impeller *
- Bilge pump
- Control head
- Instrument panel
- Oil drain pump
- Blow-by pipe
- V-belt *
- Tool kit
- Owner's manual
- * spare parts

Option

- Extension harness (5m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)
- Kingston valve

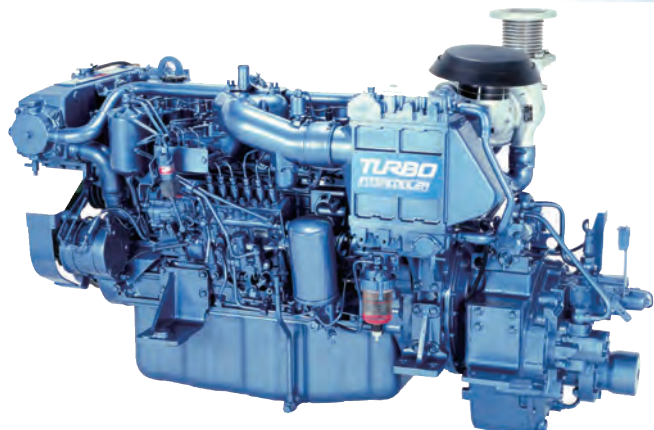
ENGINE SPECIFICATIONS

Configuration		6-cylinder, vertical in-line, 4-cycle deisel engine	
Bore x Stroke		mm (in) 105x125(4,13x4,92)	
Displacement		Lit. (cid) 6,494 (396)	
Rated output	kW(PS)/min ⁻¹	Medium duty	191(260)/2600
		Light duty	210(285)/2700
Application		Commercial use	
Governor type		Mechanical	
Combustion type		Direct injection	
Aspiration		Turbo charged / Intercooler	
Exhaust gas status		IMO Tier II	
Engine size	LxWxH mm	Engine	1343×864,5×969
		with MGN40E-1A	1505,5×864,5×975,5
Engine weight	kg (lb)	Engine	645 (1,422)
		with MGN40E-1A	820 (1,808)
Fuel used		Diesel fuel	
Starter		V-kW 24 - 4.5	
Alternator		V-A 24 - 40	
Lubrication method		Full flow pressure circulation	
Cooling method		Freshwater, full flow pressure circulation (Seawater, indirect)	
Heat exchanger (seawater circulation)		Multi-tube type (freshwater→seawater)	
Intercooler		Multi-tube type (seawater circulation)	
Rotation direction	Crankshaft	Right (clockwise) viewed from front of engine	
	Propeller shaft	Right (clockwise) viewed from stern	
Idling speed		min ⁻¹ 500	
Marine gear	Marine Gear Model	MGN40E-1A	
	Clutch type	Wet, Multi-plate hydraulic type	
	Reverse type	Constant-mesh type gear	
	Reduction ratio	2,33, 2,91, 3,45	

Specifications subject to change without notice

UM6HE1TCX

257kW



ACCESSORIES

Standard

- Installation kit
- Battery relay
- Extension harness (5m)
- Seawater pump impeller *
- Bilge pump
- Control head
- Instrument panel
- Oil drain pump
- Blow-by pipe
- V-belt *
- Tool kit
- Owner's manual
- * spare parts

Option

- Extension harness (5m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)
- Kingston valve

ENGINE SPECIFICATIONS

Configuration		6-cylinder, vertical in-line, 4-cycle deisel engine	
Bore x Stroke		mm (in)	
		110 x 125 (4.33 x 4.92)	
Displacement		Lit. (cid)	
		7.127 (434)	
Rated output	kW(PS)/min ⁻¹	Medium duty	235 (320) / 2700
		Light duty	257 (350) / 2800
Application		Commercial use	
Governor type		Mechanical	
Combustion type		Direct injection	
Aspiration		Turbo charged / Intercooler	
Exhaust gas status		IMO Tier II	
Engine size	LxWxH mm	Engine	1527x952x1101.5
		with MGN46E-26	1730.5x952x1101.5
Engine weight	kg (lb)	Engine	720 (1,587)
		with MGN46E-26	926 (2,041)
Fuel used		Diesel fuel	
Starter		V-kW	
		24 - 4.5	
Alternator		V-A	
		24 - 50	
Lubrication method		Full flow pressure circulation	
Cooling method		Freshwater, full flow pressure circulation (Seawater, indirect)	
Heat exchanger (seawater circulation)		Multi-tube type (freshwater→seawater)	
Intercooler		Multi-tube type (seawater circulation)	
Rotation direction	Crankshaft		Right (clockwise) viewed from front of engine
	Propeller shaft		Right (clockwise) viewed from stern
Idling speed		min ⁻¹	
		550	
Marine gear	Marine Gear Model		MGN46E-26
	Clutch type		Wet, multi-plate hydraulic type
	Reverse type		Constant-mesh type gear
	Reduction ratio		2.58, 3.05, 3.53

Specifications subject to change without notice

UM6SD1TCX

279kW



ACCESSORIES

Standard

- Installation kit
- Battery relay
- Extension harness (5m)
- Seawater pump impeller *
- Bilge pump
- Control head
- Instrument panel
- Oil drain pump
- Blow-by pipe
- V-belt *
- Tool kit
- Owner's manual
- * spare parts

Option

- Extension harness (5m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)
- Kingston valve

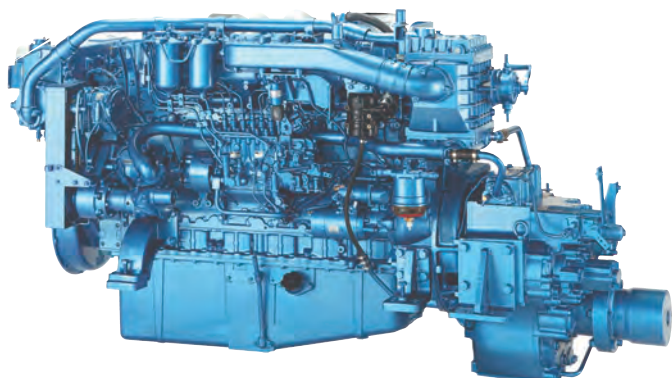
ENGINE SPECIFICATIONS

Configuration		6-cylinder, vertical in-line, 4-cycle deisel engine	
Bore x Stroke		mm (in)	
		117.9 x 145 (4.64 x 5.70)	
Displacement		Lit. (cid)	
		9.498 (579)	
Rated output	kW(PS)/min ⁻¹	Medium duty	254 (345) / 2220
		Light duty	279 (380) / 2300
Application		Commercial use	
Governor type		Mechanical	
Combustion type		Direct injection	
Aspiration		Turbo charged / Intercooler	
Exhaust gas status		IMO Tier II	
Engine size	LxWxH mm	Engine	1441x885x1189
		with MGN123E-8	1769.5x885x1189
Engine weight	kg (lb)	Engine	935 (2,061)
		with MGN123E-8	1,188 (2,619)
Fuel used		Diesel fuel	
Starter		V-kW	
		24 - 7.4	
Alternator		V-A	
		24 - 40	
Lubrication method		Full flow pressure circulation	
Cooling method		Freshwater, full flow pressure circulation (Seawater, indirect)	
Heat exchanger (seawater circulation)		Multi-tube type (freshwater→seawater)	
Intercooler		Multi-tube type (seawater circulation)	
Rotation direction	Crankshaft		Right (clockwise) viewed from front of engine
	Propeller shaft		Right (clockwise) viewed from stern
Idling speed		min ⁻¹	
		500	
Marine gear	Marine Gear Model		MGN123E-8
	Clutch type		Wet, Multi-plate hydraulic type
	Reverse type		Constant-mesh type gear
	Reduction ratio		2.57, 3.08

Specifications subject to change without notice

UM6WG1TC-AB

485kW



ACCESSORIES

Standard

- Installation kit
- Oil drain pump
- Battery relay
- Extension harness (5m)
- Seawater pump impeller *
- Bilge pump
- Control head
- Instrument panel
- Blow-by pipe
- V-belt *
- Zinc bars *
- Tool kit
- Owner's manual

Option

- Extension harness (5m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)

* spare parts

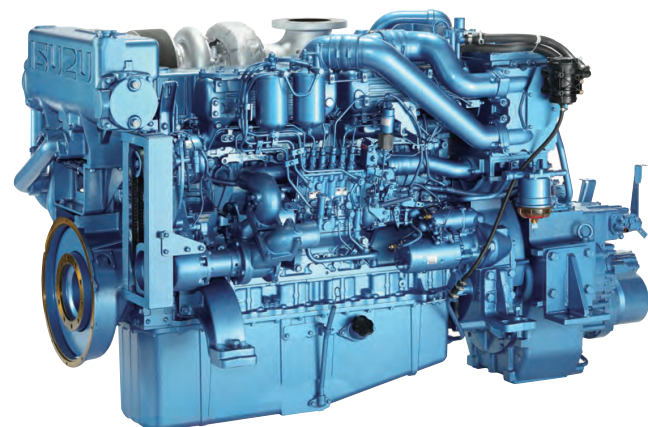
ENGINE SPECIFICATIONS

Configuration		6-cylinder, vertical in-line, 4-cycle deisel engine	
Bore x Stroke		mm (in)	147 x 154 (5.78 x 6.06)
Displacement		Lit. (cid)	15.681 (956)
Rated output *1	kW(PS)/min ⁻¹	AB1	377 (512) / 1800
		AB2	447 (608) / 2000
		AB3	485 (659) / 2100
Application		Commercial use	
Governor type		Mechanical	
Combustion type		Direct injection	
Aspiration		Turbo charged / Intercooler	
Exhaust gas status		IMO Tier II	
Engine size	LxWxH mm	Engine	2078x1092.5x1354
		with MGN80B-102	2424.5x1092.5x1359
Engine weight	kg (lb)	Engine	1,600 (3,527)
		with MGN80B-102	2,060 (4,542)
Fuel used		Diesel fuel	
Starter		V-kW	24 - 7.4
Alternator		V-A	24 - 50
Lubrication method		Full flow pressure circulation	
Cooling method		Freshwater, full flow pressure circulation(Seawater, indirect)	
Heat exchanger (seawater circulation)		Multi-tube type (freshwater→seawater)	
Intercooler		Multi-tube type (seawater circulation)	
Rotation direction	Crankshaft	Right (clockwise) viewed from front of engine	
	Propeller shaft	Right (clockwise) viewed from stern	
Idling speed		min ⁻¹	560~600
Marine gear	Marine Gear Model	MGN80B-102	
	Clutch type	Wet, Multi-plate hydraulic type	
	Reverse type	Constant-mesh type gear	
	Reduction ratio	2.03, 2.55, 2.96, 3.31, 3.48	

*1: F/W output, AB1:Continuous heavy duty, AB2:Heavy duty, AB3:Medium duty
Specifications subject to change without notice

UM6WG1TCX

537kW



ACCESSORIES

Standard

- Installation kit
- Battery relay
- Blow-by pipe
- Extension harness (5m)
- Seawater pump impeller *
- Bilge pump
- Control head
- Instrument panel
- Tool kit
- V-belt *
- Owner's manual

Option

- Extension harness (5m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)

* spare parts

ENGINE SPECIFICATIONS

Configuration		6-cylinder, vertical in-line, 4-cycle deisel engine	
Bore x Stroke		mm (in)	147 x 154 (5.78 x 6.06)
Displacement		Lit. (cid)	15.681 (957)
Rated output	kW(PS)/min ⁻¹	Medium duty	515 (700) / 2060
		Light duty	537 (730) / 2100
Application		Commercial use	
Governor type		Mechanical	
Combustion type		Direct injection	
Aspiration		Turbo charged / Intercooler	
Exhaust gas status		IMO Tier II	
Engine size	LxWxH mm	Engine	1771x1066.5x1391
		with MGN80B-102	2264x1066.5x1396
Engine weight	kg (lb)	Engine	1,665 (3,671)
		with MGN80B-102	2,125 (4,685)
Fuel used		Diesel fuel	
Starter		V-kW	24 - 7.4
Alternator		V-A	24 - 50
Lubrication method		Full flow pressure circulation	
Cooling method		Freshwater, full flow pressure circulation (Seawater, indirect)	
Heat exchanger (seawater circulation)		Multi-tube type (freshwater→seawater)	
Intercooler		Multi-tube type (seawater circulation)	
Rotation direction	Crankshaft	Right (clockwise) viewed from front of engine	
	Propeller shaft	Right (clockwise) viewed from stern	
Idling speed		min ⁻¹	600
Marine gear	Marine Gear Model	MGN80B-102	
	Clutch type	Wet, Multi-plate hydraulic type	
	Reverse type	Constant-mesh type gear	
	Reduction ratio	2.03, 2.55, 2.96, 3.31, 3.48	

Specifications subject to change without notice

Specifications : Commercial use

Model			UM4JB1	UM4JB1TCX	UM4JG1TCX	UM4BG1Z	UM4BG1TCX	
Type							OHV	
Number of cylinder							4	
Bore	mm		93	93	95.4	105	105	
	inch		3.66	3.66	3.75	4.13	4.13	
Stroke	mm		102	102	107	125	125	
	inch		4.02	4.02	4.21	4.92	4.92	
Displacement	L		2.771	2.771	3.059	4.329	4.329	
	cu-in.		169	169	186	264	264	
Aspiration			Natural	Turbocharger with Intercooler		Natural		
Injection system								
Output								
Continuous heavy duty	kW		-	-	-	-	-	
	PS		-	-	-	-	-	
	HP		-	-	-	-	-	
	min ⁻¹		-	-	-	-	-	
Heavy duty	kW		-	-	-	-	-	
	PS		-	-	-	-	-	
	HP		-	-	-	-	-	
	min ⁻¹		-	-	-	-	-	
Medium duty	kW		49	81	94	81	134	
	PS		67	110	128	110	182	
	HP		66	109	126	109	180	
	min ⁻¹		3200	3100	3100	2900	2700	
Light duty	kW		-	85	101	-	147	
	PS		-	115	138	-	200	
	HP		-	114	135	-	197	
	min ⁻¹		-	3200	3200	-	2800	
Exhasut gas status							IMO TIER II	
Starting Motor			V-kW	24 - 3.2	24 - 3.2	24 - 3.2	24 - 4.5	24 - 4.5
Alternator			V-A	24 - 30	24 - 30	24 - 30	24 - 30	24 - 50
Marine gear			MGN35A-5	MGN35A-5	MGN35A-5	MGN35A-1	MGN35A-1	
Reduction gear ratio			2.56, 3.05 3.45	2.56, 3.05 3.45	2.56, 3.05 3.45	2.56, 3.05 3.45	2.56, 3.05 3.45	
Dry weight								
Engine	kg		290	298	324	436	515	
	lb		639	657	714	961	1135	
With Marine gear	kg		445	453	479	589	668	
	lb		981	998	1056	1298	1473	
Dimension								
Engine	Length	mm	768	773	810	918	1057	
	Width	mm	629.5	634.5	672	761	764	
	Height	mm	737	790	891	938.5	941	
With Marine gear	Length	mm	1199.5	1199.5	1266.5	1268	1283	
	Width	mm	629.5	634.5	672	761	764	
	Height	mm	811	864	891	938.5	941	

Rating Definitions : Ratings are based on conditions of 100kPa (1 bar) and 30 to 60% relative humidity at 25°C(77°F).

Continuous Heavy Duty

Duty Cycle; Operation up to 100% of the time at rated power and speed.

Typical operation hours; Continuous usage is allowed up to 24 hours and annual usage is unlimited.

Heavy Duty

Duty Cycle; Operation up to 80% of the time at rated power and speed.

Typical operation hours; Continuous usage is allowed up to 10 hours and annual usage up to 4000 hours.

UM6BG1TC	UM6BG1TCX	UM6HE1TCX	UM6SD1TCX	UM6WG1TC-AB			UM6WG1TCX
				1	2	3	
4 cycle, vertical,							
				OHC			
6							
105	105	110	117.9		147		147
4.13	4.13	4.33	4.64		5.78		5.78
125	125	125	145		154		154
4.92	4.92	4.92	5.70		6.06		6.06
6.494	6.494	7.127	9.498		15.681		15.681
396	396	434	579		956		957
Turbocharger with Intercooler							
Mechanical direct injection							
-	-	-	-	377	-	-	-
-	-	-	-	512	-	-	-
-	-	-	-	506	-	-	-
-	-	-	-	1800	-	-	-
-	-	-	-	-	447	-	-
-	-	-	-	-	608	-	-
-	-	-	-	-	599	-	-
-	-	-	-	-	2000	-	-
154	191	235	254	-	-	485	515
210	260	320	345	-	-	659	700
207	256	315	341	-	-	650	691
2600	2600	2700	2220	-	-	2100	2060
169	210	257	279	-	-	-	537
230	285	350	380	-	-	-	730
227	282	345	374	-	-	-	720
2700	2700	2800	2300	-	-	-	2100
IMO TIER II	IMO TIER II	IMO TIER II	IMO TIER II	IMO TIER II			IMO TIER II
24 - 4.5	24 - 4.5	24 - 4.5	24 - 7.4	24 - 7.4			24 - 7.4
24 - 40	24 - 40	24 - 50	24 - 40	24 - 50			24 - 50
MGN40E-1A	MGN40E-1A	MGN46E-26	MGN123E-8	MGN80B-102			MGN80B-102
2.33, 2.91 3.45	2.33, 2.91 3.45	2.58, 3.05 3.53	2.57, 3.08	2.03, 2.55, 2.96 3.31, 3.48			2.03, 2.55 2.96, 3.31 3.48
600	645	720	935	1600			1665
1323	1422	1587	2061	3527			3671
775	820	926	1188	2060			2125
1709	1808	2041	2619	4542			4685
1264	1343	1527	1441	2078			1771
818	864.5	952	885	1092.5			1066.5
969	969	1101.5	1189	1354			1391
1505.5	1505.5	1730.5	1769.5	2424.5			2264
818	864.5	952	885	1092.5			1066.5
975.5	975.5	1101.5	1189	1359			1396

* All data and information subject to change without notice.

Medium Duty

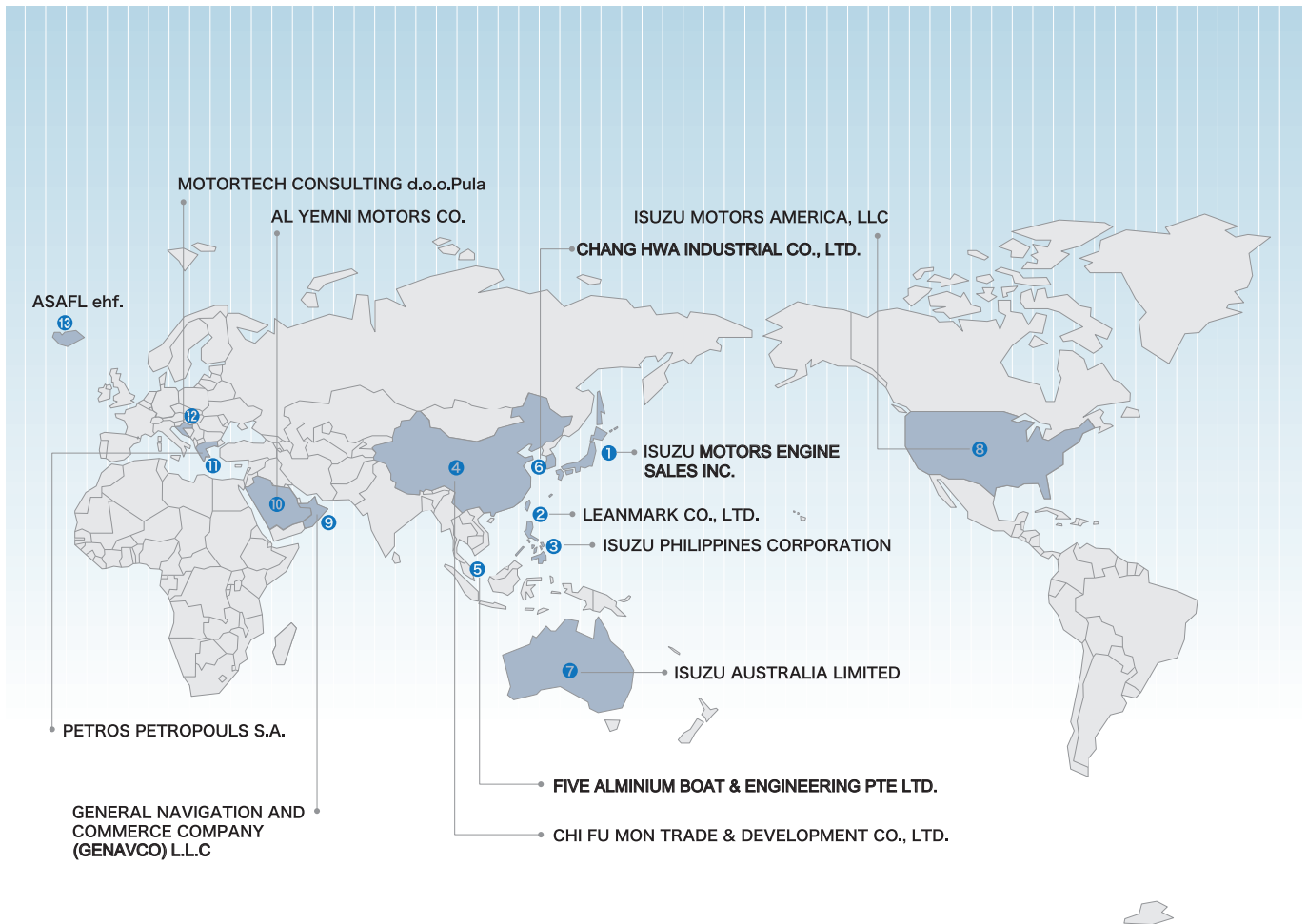
Duty Cycle; Operation up to 60% of the time at rated power and speed.

Typical operation hours; Continuous usage is allowed up to 6 hours and annual usage up to 3000 hours.

Light Duty

Duty Cycle; Operation up to 40% of the time at rated power and speed.

Typical operation hours; Continuous usage is allowed up to 2 hours and annual usage up to 2000 hours.



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