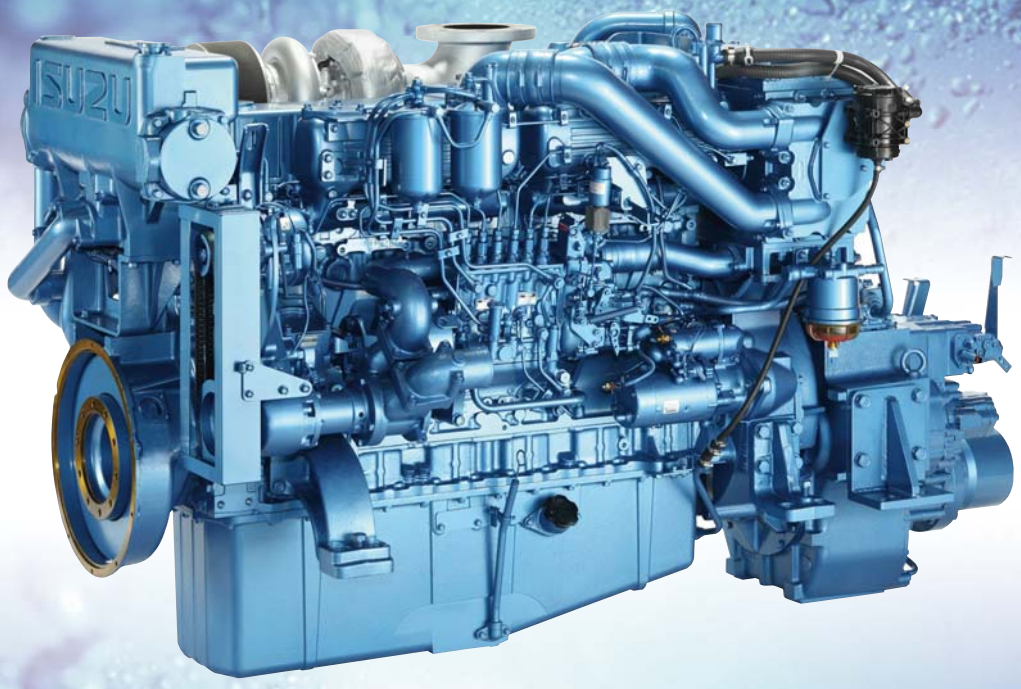
ISUZU

MARINE

PRODUCT GUIDE

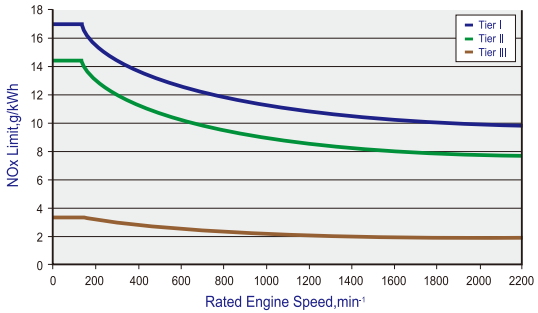


"JAPANESE QUALITY"

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




Croatia


Taiwan


UAE


Australia


Japan


Greece

At Isuzu Marine Engine 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.

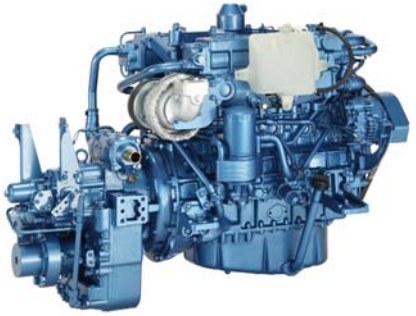
History

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.

PRODUCT INTRODUCTION

Iceland

UM4JB1TCX
85kW



ACCESSORIES

Standard

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

* spare parts

Option

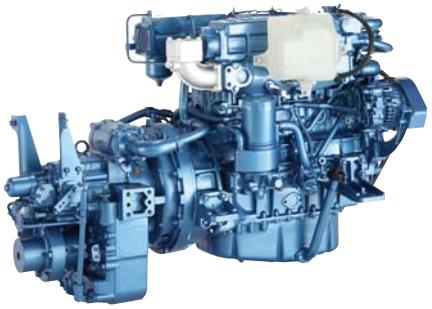
- Extension harness (3m)
- Control cable (4m,6m,10m,12m)
- Stop cable (4m,6m,8m)

ENGINE SPECIFICATIONS

Configuration		4-cylinder, vertical in-line, 4-cycle deisel engine
Bore x Stroke	mm (in)	93 × 102 (3.66 × 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 chargered / Intercooler
Engine size L×W×H mm	Engine	773×633×790
	with MGN30A	1098.5×633×826
Engine weight kg (lb)	Engine	298 (657)
	with MGN30A	424 (934)
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	MGN30A
	Clutch type	Wet, Multi-plate hydraulic type
	Reverse type	Constant-mesh type gear
	Reduction ratio	2.04, 2.52, 3.05, 3.44

Specifications subject to change without notice

UM4JB1
49kW



ACCESSORIES

Standard

- Installation kit
- Kingston valve
- 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)

ENGINE SPECIFICATIONS

Configuration		4-cylinder, vertical in-line, 4-cycle deisel engine
Bore x Stroke	mm (in)	93 × 102 (3.66 × 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 L×W×H mm	Engine	768×629×737
	with MGN30A	1098.5×629×773
Engine weight kg (lb)	Engine	290 (639)
	with MGN30A	416 (917)
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	MGN30A
	Clutch type	Wet, Multi-plate hydraulic type
	Reverse type	Constant-mesh type gear
	Reduction ratio	2.04, 2.52, 3.05, 3.44

Specifications subject to change without notice

UM4JG1TCX
101kW

ACCESSORIES

Standard

- Installation kit
- Kingston valve
- 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)

ENGINE SPECIFICATIONS

Configuration		4-cylinder, vertical in-line, 4-cycle deisel engine
Bore x Stroke	mm (in)	95.4×107 (3.75×4.21)
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 chargered / Intercooler
Engine size L×W×H mm	Engine	810×671×891
	with MGN30A	1165.5×671×891
Engine weight kg (lb)	Engine	324 (714)
	with MGN30A	450 (992)
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	MGN30A
	Clutch type	Wet, Multi-plate hydraulic type
	Reverse type	Constant-mesh type gear
	Reduction ratio	2.04, 2.52, 3.05, 3.44

Specifications subject to change without notice

UM4BG1Z

81kW

ACCESSORIES

Standard

- Installation kit
- Kingston valve
- 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)

ENGINE SPECIFICATIONS

Configuration		4-cylinder, vertical in-line, 4-cycle deisel engine
Bore x Stroke	mm (in)	105 × 125 (4.13 × 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 L×W×H mm	Engine	918×768×978
	with MGN30A	1185×768×978
Engine weight kg (lb)	Engine	436 (961)
	with MGN30A	560 (1,235)
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		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	MGN30A
	Clutch type	Wet, Multi-plate hydraulic type
	Reverse type	Constant-mesh type gear
	Reduction ratio	2.04, 2.52, 3.05, 3.44

Specifications subject to change without notice

UM6BG1TC

169kW

ACCESSORIES

Standard

- Installation kit
- Kingston valve
- 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)

ENGINE SPECIFICATIONS

Configuration		6-cylinder, vertical in-line, 4-cycle deisel engine
Bore x Stroke	mm (in)	105 × 125 (4.13 × 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 chargered / Intercooler
Exhaust gas status		IMO Tier II
Engine size L×W×H mm	Engine	1264×818×967.5
	with MGN40E	1505.5×818×975.5
Engine weight kg (lb)	Engine	600 (1,323)
	with MGN40E	769 (1,695)
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
	Clutch type	Wet, Multi-plate hydraulic type
	Reverse type	Constant-mesh type gear
	Reduction ratio	1.94, 2.33, 2.91, 3.45

Specifications subject to change without notice

UM4BG1TCX

147kW

ACCESSORIES

Standard

- Installation kit
- Kingston valve
- 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)

ENGINE SPECIFICATIONS

Configuration		4-cylinder, vertical in-line, 4-cycle deisel engine
Bore x Stroke	mm (in)	105 × 125 (4.13 × 4.92)
Displacement	Lit. (cid)	4.329 (264)
Rated output kW(PS)/min⁻¹	Medium duty	134 (182) / 2700
	Light duty	147 (200) / 2800
Application		Commercial use
Governor type		Mechanical
Combustion type		Direct injection
Aspiration		Turbo chargered / Intercooler
Exhaust gas status		IMO Tier II
Engine size L×W×H mm	Engine	1057×764×941
	with MGN35A	1283×941×764
Engine weight kg (lb)	Engine	507 (1,118)
	with MGN35A	655 (1,444)
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
	Clutch type	Wet, Multi-plate hydraulic type
	Reverse type	Constant-mesh type gear
	Reduction ratio	1.97, 2.56, 3.05, 3.45

Specifications subject to change without notice

UM6BG1TCX

210kW

ACCESSORIES

Standard

- Installation kit
- Kingston valve
- 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)

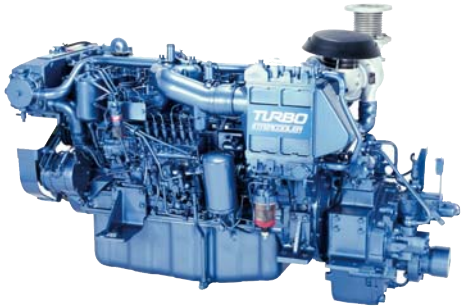
ENGINE SPECIFICATIONS

Configuration		6-cylinder, vertical in-line, 4-cycle deisel engine
Bore x Stroke	mm (in)	105×125(4.13×4.92)
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 chargered / Intercooler
Exhaust gas status		IMO Tier II
Engine size L×W×H mm	Engine	1343×864×967.5
	with MGN40E	1505.5×864×975.5
Engine weight kg (lb)	Engine	645 (1,422)
	with MGN40E	814 (1,795)
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	550
Marine gear	Marine Gear Model	MGN40E
	Clutch type	Wet, Multi-plate hydraulic type
	Reverse type	Constant-mesh type gear
	Reduction ratio	1.94, 2.33, 2.91, 3.45

Specifications subject to change without notice

UM6HE1TCX

257kW



ACCESSORIES

Standard

- Installation kit
- Kingston valve
- 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)

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 chargered / Intercooler
Exhaust gas status		IMO Tier II
Engine size L×W×H mm	Engine	1527×952×1101
	with MGN40G	1747×952×1101
Engine weight kg (lb)	Engine	720 (1,587)
	with MGN40G	898 (1,980)
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	MGN40G
	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

UM6SD1TCX

279kW

ACCESSORIES

Standard

- Installation kit
- Kingston valve
- 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)

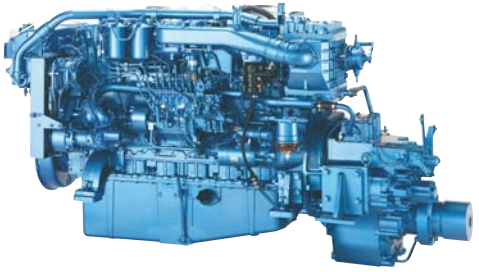
ENGINE SPECIFICATIONS

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 chargered / Intercooler
Exhaust gas status		IMO Tier II
Engine size L×W×H mm	Engine	1441×885×1189
	with MGN123	1730.5×885×1189
Engine weight kg (lb)	Engine	935 (2,061)
	with MGN123	1,125 (2,480)
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	MGN123
	Clutch type	Wet, Multi-plate hydraulic type
	Reverse type	Constant-mesh type gear
	Reduction ratio	1.52, 1.97, 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

* spare parts

Option

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

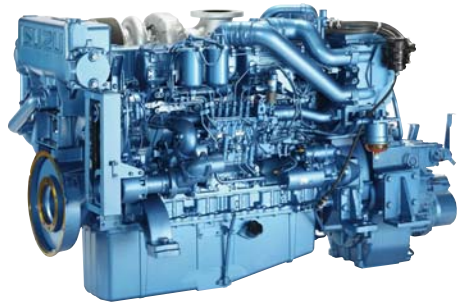
ENGINE SPECIFICATIONS

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 chargered / Intercooler
Exhaust gas status		IMO Tier II
Engine size L×W×H mm	Engine	2002×1092×1354
	with MGN80B	2425×1092×1359
Engine weight kg (lb)	Engine	1,500 (3,307)
	with MGN80B	1,920 (4,233)
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
	Clutch type	Wet, Multi-plate hydraulic type
	Reverse type	Constant-mesh type gear
	Reduction ratio	1.68, 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

* spare parts

Option

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

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 chargered / Intercooler
Exhaust gas status		IMO Tier II
Engine size L×W×H mm	Engine	1771×1066×1391
	with MGN80B	2264×1066×1396
Engine weight kg (lb)	Engine	1,615 (3,560)
	with MGN80B	2,100 (4,630)
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
	Clutch type	Wet, Multi-plate hydraulic type
	Reverse type	Constant-mesh type gear
	Reduction ratio	1.68, 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	UM6BG1TC	UM6BG1TCX	UM6HE1TCX	UM6SD1TCX	UM6WG1TC-AB			UM6WG1TCX
												1	2	3	
Type			4 cycle, vertical,												
			OHV							OHC					
Number of cylinder			4					6							
Bore		mm	93	93	95.4	105	105	105	105	110	117.9	147			147
		inch	3.66	3.66	3.75	4.13	4.13	4.13	4.13	4.33	4.64	5.78			5.78
Stroke		mm	102	102	107	125	125	125	125	125	145	154			154
		inch	4.02	4.02	4.21	4.92	4.92	4.92	4.92	4.92	5.70	6.06			6.06
Displacement		L	2.771	2.771	3.059	4.329	4.329	6.494	6.494	7.127	9.498	15.681			15.681
		cu-in.	169	169	186	264	264	396	396	434	579	956			957
Aspiration			Natural	Turbocharger with Intercooler		Natural	Turbocharger with Intercooler								
Injection system			Mechanical direct injection												
Output															
Continuous heavy duty		kW	-	-	-	-	-	-	-	-	-	377	-	-	-
		PS	-	-	-	-	-	-	-	-	-	512	-	-	-
		HP	-	-	-	-	-	-	-	-	-	506	-	-	-
		min⁻	-	-	-	-	-	-	-	-	-	1800	-	-	-
Heavy duty		kW	-	-	-	-	-	-	-	-	-	-	447	-	-
		PS	-	-	-	-	-	-	-	-	-	-	608	-	-
		HP	-	-	-	-	-	-	-	-	-	-	599	-	-
		min⁻	-	-	-	-	-	-	-	-	-	-	2000	-	-
Medium duty		kW	49	81	94	81	134	154	191	235	254	-	-	485	515
		PS	67	110	128	110	182	210	260	320	345	-	-	659	700
		HP	66	109	126	109	180	207	256	315	341	-	-	650	691
		min⁻	3200	3100	3100	2900	2700	2600	2600	2700	2220	-	-	2100	2060
Light duty		kW	-	85	101	-	147	169	210	257	279	-	-	-	537
		PS	-	115	138	-	200	230	285	350	380	-	-	-	730
		HP	-	114	135	-	197	227	282	345	374	-	-	-	720
		min⁻	-	3200	3200	-	2800	2700	2700	2800	2300	-	-	-	2100
Exhasut gas status				-	-		IMO TIER II	IMO TIER II	IMO TIER II	IMO TIER II	IMO TIER II	IMO TIER II			IMO TIER II
Starting Motor		V-kW	24 - 3.2	24 - 3.2	24 - 3.2	24 - 4.5	24 - 4.5	24 - 4.5	24 - 4.5	24 - 4.5	24 - 7.4	24 - 7.4			24 - 7.4
Alternator		V-A	24 - 30	24 - 30	24 - 30	24 - 30	24 - 50	24 - 40	24 - 40	24 - 50	24 - 40	24 - 50			24 - 50
Marine gear			MGN30A	MGN30A	MGN30A	MGN30A	MGN35A	MGN40E	MGN40E	MGN40G	MGN123	MGN80B			MGN80B
Reduction gear ratio			2.04/2.52 3.05/3.44	2.04/2.52 3.05/3.44	2.04/2.52 3.05/3.44	2.04/2.52 3.05/3.44	1.97/2.56 3.05/3.45	1.94/2.33 2.91/3.45	1.94/2.33 2.91/3.45	2.33/2.91 3.45	1.52/1.97 2.57/3.08	1.68/2.03/2.55 2.96/3.31/3.48			1.68/2.03 2.55/2.96 3.31/3.48
Dry weight															
Engine		kg	290	298	324	436	507	600	645	720	935	1500			1615
		lb	639	657	714	961	1118	1323	1422	1587	2061	3307			3560
With Marine gear		kg	416	424	450	560	655	769	814	898	1125	1920			2100
		lb	917	934	992	1235	1444	1695	1795	1980	2480	4233			4630
Dimension															
Engine	Length	mm	768	773	810	918	1057	1264	1343	1527	1441	2002			1771
	Width	mm	629	633	671	768	764	818	864	952	885	1092			1066
	Height	mm	737	790	891	978	941	967.5	967.5	1101	1189	1354			1391
With Marine gear	Length	mm	1098.5	1098.5	1165.5	1185	1283	1505.5	1505.5	1747	1730.5	2425			2264
	Width	mm	629	633	671	768	941	818	864	952	885	1092			1066
	Height	mm	773	826	891	978	764	975.5	975.5	1101	1189	1359			1396

* All data and information subject to change without notice.

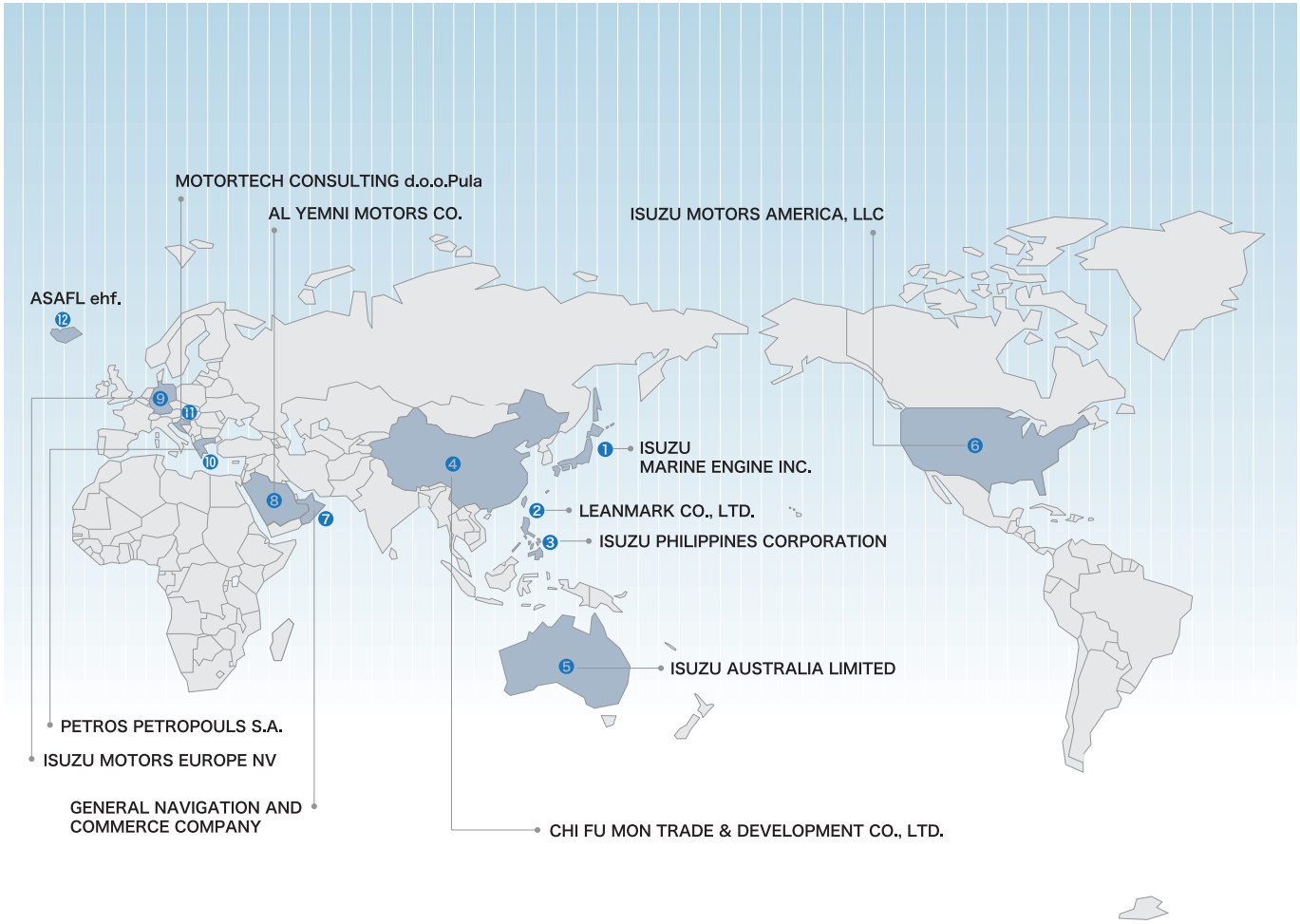
Rating Definitions : Ratings are based on conditions of 100kPa (1 bar) and 30 to 60% relative humidity at 25℃(77℉).

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.

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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