



# MARINE PRODUCTS GUIDE





Your needs are specific when it comes to marine power...like toughness and dependability...fuel efficiency and performance. These are the foundations on which we've built our business, in addition to quality service, parts availability and expert technical assistance at ports of call around the world.







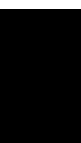


Cummins MerCruiser Diesel, a joint venture between Cummins Inc. and Mercury MerCruiser, focuses on marine propulsion applications below 15 liters for yachts, sport fishing boats, trawlers, military craft, commercial vessels and more.

Cummins Marine, a Division of Cummins Incorporated, offers marine propulsion engines from 272 - 1716 kW (365-2300 hp) and auxiliary engines and gensets from 37 - 1901 kW.

Learn more about Cummins MerCruiser Diesel, Cummins Marine, and our products by visiting our websites:

Cummins MerCruiser Diesel: [www.cmdmarine.com](http://www.cmdmarine.com)  
Cummins Marine: [www.cummins.com](http://www.cummins.com)

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# Marine Rating Guidelines

## Rating Definitions

Ratings are based on ISO 8665 conditions of 100 kPa (29.612 in Hg) and 25 °C (77 °F) and 30% relative humidity. Propeller shaft power represents the net power available after typical gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

Fuel consumption has a tolerance of +5% and is based on fuel of 35° API gravity at 16 °C (60 °F) having an LHV of 42,780 KJ/KG (18,390 BTU/lb) when used at 29 °C (85 °F) and weighing 838.9 g/liter (7.001 lb/US gal) with LTA when available.

## PROPULSION

### Continuous Duty (CON)

Intended for continuous use in applications requiring uninterrupted service at full power. This rating is an ISO 3046 standard power rating.

Typical vessel applications include: ocean-going displacement hulls such as fishing trawlers, freighters, tugboats, bottom drag trawlers, and towboats.

### Heavy Duty (HD)

Intended for continuous use in variable load applications where full power is limited to eight (8) hours out of every ten (10) hours of operation. Also, reduced power operations must be at or below 200 rpm of the maximum rated rpm. This is an ISO 3046 fuel stop power rating and is for applications that operate 5,000 hours per year or less.

Typical vessel applications include: displacement hull vessels such as mid-water trawlers, purse seiners, and towboats where frequent slowing is common and engine speed and load is stable. Also used in high speed vessels such as ferries and crewboats.

### Medium Continuous Duty (MCD)

Intended for continuous use in variable load applications where full power is limited to six hours out of every twelve hours of operation. Also, reduced power operations must be at or below 200 rpm of the maximum rated rpm. This rating is

## **Light Commercial (LC)**

Intended for use in variable load applications where full power is limited to one hour out of every twelve hours of operation. Reduced power must be at or below 400 rpm of the maximum rated rpm. This rating is for government, commercial or any revenue producing craft that operate less than 500 hours per year. Typical applications include customs boats, pilot boats, police craft, patrol boats, charter sailboats and some fishing vessel applications.

## **GENERATOR DRIVE**

### **Prime Power**

Engines with this rating are available for an unlimited number of hours per year in variable load applications. Variable load is not to exceed a 70 percent average of the rated power during any operating period of 250 hours. Total operating time at 100 percent Prime Power shall not exceed 500 hours per year.

A 10 percent overload capability is available for a period of one hour within a twelve hour period of operation. Total operating time at the 10 percent overload power shall not exceed 25 hours per year. This power rating conforms to ISO 8528 guidelines.

## **Length Measurements**

Length: Listed distance indicates measurement from front of engine to rear face of flywheel housing.

Overall Length: Listed distance indicates total length of engine without marine gear.

Please see your nearest Cummins Professional for the most current technical information.

# Marine Emissions Certifications

Cummins Inc. has always been a leader in complying with and designing for environmental concerns. Cummins Marine invests significantly in product development and upgrades to insure that we offer our customers a full product line of certified engines. A summary of current and near-term regulations is listed below.

IMO - The International Maritime Organization has issued Regulation 13 to Annex VI of MARPOL 73/78 which entered into effect on January 1, 2000 for diesel engines above 130 kW (175 hp) installed on a ship.

EPA - On January 1, 2004, emissions regulations mandated by the EPA entered into effect for new commercial marine diesel engines installed on vessels flagged or registered in the United States. The EPA has set forth two Tiers of standards with a phased implementation based on per cylinder displacement. Tier 1 emission standards are set at the same level as Annex VI of MARPOL 73/78 (IMO), and regulate levels of Nitrogen Oxides (NOx). Tier 1 applies to all commercial propulsion and auxiliary diesel engines with displacement at or above 2.5 liters per cylinder.

The more stringent Tier 2 standards entered into effect on January 1, 2004 for marine diesel engines with a displacement of 0.9 up to 2.5 liters per cylinder. Tier 2 regulates not only NOx, but also Hydrocarbons (HC), Carbon Monoxide (CO), and Particulate Matter (PM). Engines with a displacement less than 0.9 liters per cylinder will be required to comply with Tier 2 standards beginning January 1, 2005 and engines at or above 2.5 liters per cylinder will be required to comply with Tier 2 standards beginning January 1, 2007.

Each engine rating offered will have the following designation in the Emissions column to designate compliance to the above entities:

**N/A** - rating is not compliant or not applicable to current regulations

**IMO** - rating is compliant to Regulation 13 to Annex VI of MARPOL 73/78

**EPA1** - rating is IMO compliant and certified to EPA Tier 1

**EPA2** - rating is IMO compliant and EPA Tier 2 Certified

Not all regulations apply to every engine or rating. Certain ratings may not be available for sale in some areas due to emissions compliance. Other local certifications may be available. For more information on current emissions regulations in your area, contact your local Cummins professional.



# Cummins MerCruiser Diesel Recreational Product Line

## Sterndrive

<b>kW</b>	<b>HP</b>	<b>RPM</b>	<b>Model Name</b>	<b>Page</b>
90	120*	4400	1.7 MS 120	12
121	165	3800	2.8 ES 165	13
147	200	3800	2.8 ES 200	14
169	230	3800	4.2 MS 230	15
184	250	3800	4.2 ES 250	16
221	300	3800	4.2 ES 300	16

## Inboard

<b>kW</b>	<b>HP</b>	<b>RPM</b>	<b>Model Name</b>	<b>Page</b>
112	155	2800	155B	22
121	165	3800	2.8 EI 165	17
147	200	3800	2.8 EI 200	18
157	220	2600	220B	25
169	230	3800	4.2 MI 230	19
179	250	3000	4B-250	23
184	250	3800	4.2 EI 250	20
194	270	2600	270B	26
221	300	3800	4.2 EI 300	20
235	330	2800	330B	26
243	330	2800	QSB5.9-330	27
261	355	2800	QSB5.9-355	27
265	370	3000	370B	26
280	380	3000	QSB5.9-380	27
321	450	2600	450C	28
344	480	2600	480C-E	28
361	490	2500	QSC8.3-490	29
397	540	2600	QSC8.3-540	29
399	545	2300	QSM11-545	31
448	610	2300	QSM11-610	31
474	645	2300	QSM11-645	31
492	670	2300	QSM11-670	31

Metric Horsepower    \* – SAE Rating



# Cummins MerCruiser Diesel Commercial Product Line

<b>kW</b>	<b>BHP</b>	<b>RPM</b>	<b>Engine Model</b>	<b>Rating</b>	<b>Page</b>
57	76	2500	4B3.9-M	MCD	21
60	80	2800	4B3.9-M	INT	21
86	115	2500	6B5.9-M	MCD	24
90	120	2800	6B5.9-M	INT	24
97	130	2500	4BT3.9-M	MCD	22
112	150	2800	4BT3.9-M	INT	22
134	180	2500	6BT5.9-M	MCD	25
147	200	3600	4.2 MI 200	LC	19
147	200	3600	4.2 MS 200	LC	15
157	210	2600	6BT5.9-M	INT	25
168	225	2500	6BTA5.9-M	MCD	26
169	230	2600	QSB5.9-230	HD	27
190	255	1800	6CTA8.3-M	CONT	28
194	260	2600	6BTA5.9-M	INT	26
209	280	2600	6BTA5.9-M	MCD	26
209	285	1800	QSL9-285	CON	30
225	305	2600	QSB5.9-305	MCD	27
235	315	2800	6BTA5.9-M	INT	26
243	330	1800	QSL9-330	HD	30
261	350	2500	6CTA8.3-M	INT	28
261	355	2800	QSB5.9-355	INT	27
269	360	1800	N14-M	CONT	32
298	400	1800	N14-M	CONT	32
298	405	2100	QSL9-405	MCD	30
321	430	2600	6CTA8.3-M	INT	28
328	440	1800	N14-M	CONT	32
336	450	2100	QSM11-M	MCD	31
358	480	1800	N14-M	HD	32
361	490	2500	QSC8.3-490	INT	29
392	525	2100	N14-M	MCD	32
433	580	2300	QSM11-M	INT	31



**Marine**

# Cummins Marine

## Commercial Propulsion

### Product Line

#### Emissions Compliant

<b>kW</b>	<b>BHP</b>	<b>RPM</b>	<b>Engine Model</b>	<b>Rating</b>	<b>Page</b>
373	500	1800	KTA19-M3	CONT	37
395	530	1800	KTA19-M3	CONT	37
447	600	1800	KTA19-M3	CONT	37
477	640	1800	KTA19-M3	HD	37
492	660	1800	QSK19-M	CONT	39
522	700	2100	KTA19-M4	MCD	38
559	750	1600	KTA38-M0	CONT	40
567	760	2100	QSK19-M	HD	39
597	800	1800	KTA38-M0	CONT	40
597	800	2100	QSK19-M	MCD	39
634	850	1800	KTA38-M0	CONT	40
671	900	1600	KTA38-M1	CONT	41
746	1000	1800	KTA38-M1	CONT	41
783	1050	1600	KTA38-M2	CONT	42
820	1100	1800	KTA38-M1	HD	41
895	1200	1800	KTA38-M2	CONT	42
969	1300	1800	KTA38-M2	HD	42
1007	1350	1900	KTA38-M2	HD	42
1007	1350	1950	KTA38-M2	HD	42
1044	1400	1950	KTA38-M2	MCD	42
1044	1400	1600	KTA50-M2	CONT	43
1119	1500	2050	KTA38-M2	INT	42
1194	1600	1800	KTA50-M2	CONT	43
1268	1700	1800	KTA50-M2	HD	43
1343	1800	1900	KTA50-M2	HD	43
1399	1875	1950	KTA50-M2	MCD	43
1492	2000	2050	KTA50-M2	INT	43
1492	2000	1800	QSK60-M	CONT	44
1641	2200	1800	QSK60-M	CONT	44
1716	2300	1900	QSK60-M	HD	44

## Non-Compliant Ratings

<b>kW</b>	<b>BHP</b>	<b>RPM</b>	<b>Engine Model</b>	<b>Rating</b>	<b>Page</b>
179	240	1800	NT855-M	CONT	33
201	270	1800	NT855-M	CONT	33
224	300	1800	NT855-M	CONT	33
254	340	1800	NT855-M	HD	33
261	350	1800	NTA855-M	CONT	34
269	360	2100	NT855-M	MCD	33
272	365	1800	KT19-M	CONT	35
283	380	1800	NTA855-M	HD	34
283	380	1800	KT19-M	CONT	35
298	400	2100	NTA855-M	MCD	34
317	425	1800	KT19-M	CONT	35
351	470	1800	KT19-M	HD	35
373	500	1800	KTA19-M	CONT	36
380	510	2100	KT19-M	MCD	35
395	530	1800	KTA19-M	HD	36
410	550	2100	KTA19-M	MCD	36



**Marine**

# Cummins Marine

## Generator Drive

## Product Line

### Emissions Compliant

<b>kWe*</b>	<b>kW</b>	<b>HP</b>	<b>RPM</b>	<b>Engine Model</b>	<b>Page</b>
33	37	50	1500	4B3.9-D(M)	45
39	45	60	1800	4B3.9-D(M)	45
42	46	62	1500	4BT3.9-D(M)	46
44	49	66	1500	4BT3.9-D(M)	46
48	54	72	1500	6B5.9-D(M)	47
52	58	78	1800	4BT3.9-D(M)	46
59	66	88	1800	6B5.9-D(M)	47
62	69	92	1800	4BT3.9-D(M)	46
71	78	104	1500	6BT5.9-D(M)	48
83	91	122	1500	6BT5.9-D(M)	48
83	91	122	1800	6BT5.9-D(M)	48
102	112	150	1800	6BT5.9-D(M)	48
113	122	164	1500	6CT8.3-D(M)	49
129	140	188	1800	6CT8.3-D(M)	49
150	163	219	1500	6CTA8.3-D(M)	50
151	164	220	1500	6CTA8.3-D(M)	50
166	181	242	1800	6CTA8.3-D(M)	50
173	188	252	1800	6CTA8.3-D(M)	50
185	201	270	1800	6CTA8.3-D(M)	50
337	358	480	1500	KTA19-D(M1)	54
379	403	540	1500	KTA19-D(M)	53
386	410	550	1500	KTA19-D(M1)	54
400	425	570	1800	KTA19-D(M1)	54
435	463	620	1800	KTA19-D(M)	53
456	485	650	1800	KTA19-D(M1)	54
526	560	750	1500	VTA28-D(M)	55
572	608	815	1800	VTA28-D(M)	55
716	746	1000	1500	KTA38-D(M1)	57
788	821	1100	1800	KTA38-D(M1)	57
845	880	1180	1500	KTA38-D(M1)	57
931	970	1300	1800	KTA38-D(M1)	57
967	1007	1350	1500	KTA50-D(M1)	59
1053	1097	1470	1500	KTA50-D(M1)	59

<b>kWe*</b>	<b>kW</b>	<b>HP</b>	<b>RPM</b>	<b>Engine Model</b>	<b>Page</b>
1096	1141	1530	1800	KTA50-D(M1)	59
1152	1200	1608	1500	KTA50-D(M2)	60
1239	1291	1730	1800	KTA50-D(M1)	59
1328	1384	1855	1800	KTA50-D(M2)	60
1500	1563	2095	1500	QSK60-D(M)	61
1825	1900	2547	1800	QSK60-D(M)	61

## **Non-Compliant Ratings**

<b>kWe*</b>	<b>kW</b>	<b>HP</b>	<b>RPM</b>	<b>Engine Model</b>	<b>Page</b>
194	209	280	1500	NT855-D(M)	51
215	231	310	1500	NT855-D(M)	51
225	242	325	1500	NT855-D(M)	51
236	254	340	1800	NT855-D(M)	51
246	265	355	1800	NT855-D(M)	51
260	280	375	1500	NTA855-D(M)	52
274	295	395	1800	NT855-D(M)	51
284	306	410	1500	NTA855-D(M)	52
295	313	420	1800	NTA855-D(M)	52
316	336	450	1500	KTA19-D(M)	53
337	358	480	1800	NTA855-D(M)	52
368	392	525	1800	KTA19-D(M)	53
421	448	600	1500	KTA19-D(M)	53
477	507	680	1800	KTA19-D(M)	53
484	515	690	1800	VTA28-D(M)	55
526	560	750	1800	VTA28-D(M)	55
609	634	850	1500	KTA38-D(M)	56
637	664	890	1500	KTA38-D(M)	56
738	768	1030	1800	KTA38-D(M)	56
777	809	1085	1800	KTA38-D(M)	56
845	880	1180	1500	KTA38-D(M)	56
845	880	1180	1500	KTA50-D(M)	58
864	900	1206	1500	KTA50-D(M)	58
874	910	1220	1800	KTA38-D(M)	56
960	1000	1340	1800	KTA50-D(M)	58
967	1007	1350	1800	KTA38-D(M)	56
967	1007	1350	1800	KTA50-D(M)	58
1053	1097	1470	1500	KTA50-D(M)	58
1171	1220	1635	1800	KTA50-D(M)	58

\*kWe reflects the approximate amount of power available when used in a genset configuration.

# 1.7 MS 120

## Sterndrive

### General Specifications

<b>Configuration</b>	In-line 4 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	1.7 liters	103 cu in
<b>Bore &amp; Stroke</b>	79x86 mm	3.11x3.39 in

### Recreational Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
90	120	4400	26.87	7.1	PC	N/A

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	811	(31.9)
<b>Width</b> mm (in)	746	(29.4)
<b>Height</b> mm (in)	715	(28.1)
<b>Weight</b> kg (lb)	296	(653)

# 2.8 ES 165

## Sterndrive

### General Specifications

<b>Configuration</b>	In-line 4 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	2.8 liters	169 cu in
<b>Bore &amp; Stroke</b>	94x100 mm	3.70x3.94 in

### Recreational Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
121	165	3800	34.07	9.00	PC	N/A

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1097	(43.19)
<b>Width</b> mm (in)	781	(30.75)
<b>Height</b> mm (in)	781	(31.26)
<b>Weight</b> kg (lb)	493	(1087)



# 2.8 ES 200

## Sterndrive

### *General Specifications*

<b>Configuration</b>	In-line 4 cylinder, 4 stroke diesel	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	2.8 liters	169 cu in
<b>Bore &amp; Stroke</b>	94x100 mm	3.70x3.94 in
<b>Compression Ratio</b>	16.5:1	

### *Recreational Ratings*

<b>kW</b>	<b>HP</b>	<b>RPM</b>	<b>Fuel Cons</b>		<b>Rating</b>	<b>Emissions</b>
			<i>L/hr</i>	<i>G/hr</i>		
147	200	3800	45.3	12	PC	IMO

Metric Horsepower

### *General Engine Dimensions*

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	753	(29.6)
<b>Width</b> mm (in)	766	(30.2)
<b>Height</b> mm (in)	790	(31.1)
<b>Weight</b> kg (lb)	488	(1075)

# 4.2 MS 200

# 4.2 MS 230

## Sterndrive

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	4.2 liters	254 cu in
<b>Bore &amp; Stroke</b>	94x100 mm	3.70x3.94 in

### Recreational Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
149	200	3600	40.42	10.68	LC	IMO
169	230	3800	49.2	13.0	PC	IMO

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1319	(51.93)
<b>Width</b> mm (in)	781	(30.75)
<b>Height</b> mm (in)	781	(30.94)
<b>Weight</b> kg (lb)	584	(1287)

Metric Horsepower

# 4.2 ES 250

# 4.2 ES 300

## Sterndrive

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	4.2 liters	254 cu in
<b>Bore &amp; Stroke</b>	94x100 mm	3.70x3.94 in

### Recreational Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
184	250	3800	52.99	14.00	PC	IMO
221	300	3800	65.18	17.22	PC	IMO

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1319	(51.93)
<b>Width</b> mm (in)	781	(30.75)
<b>Height</b> mm (in)	781	(30.94)
<b>Weight</b> kg (lb)	584	(1287)

Metric Horsepower

# 2.8 EI 165

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 4 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	2.8 liters	169 cu in
<b>Bore &amp; Stroke</b>	94x100 mm	3.70x3.94 in

### Recreational Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
121	165	3800	34.07	9.00	PC	N/A

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1001	(39.41)
<b>Width</b> mm (in)	725	(28.54)
<b>Height</b> mm (in)	766	(30.16)
<b>Weight</b> kg (lb)	461	(1016)

(Weight includes down-angle transmission.)

Metric Horsepower



# 2.8 EI 200

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 4 cylinder, 4 stroke diesel	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	2.8 liters	169 cu in
<b>Bore &amp; Stroke</b>	94x100 mm	3.70x3.94 in
<b>Compression Ratio</b>	16.5:1	

### Recreational Ratings

kW	HP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
147	200	3800	45.3	12	PC	IMO

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	748	(29.4)
<b>Width</b> mm (in)	766	(30.2)
<b>Height</b> mm (in)	790	(31.1)
<b>Weight</b> kg (lb)	395	(869)

Metric Horsepower

# 4.2 MI 200

# 4.2 MI 230

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	4.2 liters	254 cu in
<b>Bore &amp; Stroke</b>	94x100 mm	3.70x3.94 in

### Recreational Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
147	200	3600	40.42	10.68	LC	IMO
169	230	3800	49.2	13.0	PC	IMO

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1225	(48.23)
<b>Width</b> mm (in)	726	(28.58)
<b>Height</b> mm (in)	767	(30.20)
<b>Weight</b> kg (lb)	528	(1161)

(Weight includes down-angle transmission.)

Metric Horsepower



## 4.2 EI 250

## 4.2 EI 300

### Main Propulsion

#### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	4.2 liters	254 cu in
<b>Bore &amp; Stroke</b>	94x100 mm	3.70x3.94 in

#### Recreational Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
184	250	3800	52.99	14.00	PC	IMO
221	300	3800	65.18	17.22	PC	IMO

#### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1225	(48.23)
<b>Width</b> mm (in)	726	(28.58)
<b>Height</b> mm (in)	767	(30.20)
<b>Weight</b> kg (lb)	528	(1161)

(Weight includes down-angle transmission.)

Metric Horsepower

# 4B3.9-M

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 4 cylinder, 4 stroke	
<b>Aspiration</b>	Naturally Aspirated	
<b>Displacement</b>	3.9 liters	239.0 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	102x120 mm	4.02x4.72 in
<b>Compression Ratio</b>	17.3:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
57	76	2500	15.5	4.1	MCD	N/A
60	80	2800	17.1	4.5	INT	N/A

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	790	(31)
<b>Width</b> mm (in)	711	(28)
<b>Height</b> mm (in)	894	(35)
<b>Weight</b> kg (lb)	381	(840)



# 4BT3.9-M

## 155B

### Main Propulsion

#### General Specifications

<b>Configuration</b>	In-line 4 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged	
<b>Displacement</b>	3.9 liters	239.0 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	102x120 mm	4.02x4.72 in
<b>Compression Ratio</b>	16.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

#### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
97	130	2500	24.8	6.5	MCD	N/A
112	150	2800	28.8	7.6	INT	N/A

#### Recreational Ratings

kW	HP*	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
112	155	2800	28.8	7.6	HO	N/A

\*Metric Horsepower

#### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	779.9	(30.70)
<b>Width</b> mm (in)	703.7	(27.7)
<b>Height</b> mm (in)	771.2	(30.36)
<b>Weight</b> kg (lb)	390	(860)
<b>Overall Length</b> mm (in)	955.4	(37.62)

# 4B-250

## Main Propulsion



### General Specifications

<b>Configuration</b>	In-line 4 cylinder, 4 stroke		
<b>Aspiration</b>	Turbocharged/Aftercooled		
<b>Displacement</b>	3.9 liters	239.0 in <sup>3</sup>	
<b>Bore &amp; Stroke</b>	102x120 mm	4.02x4.72 in	
<b>Compression Ratio</b>	15.3:1		
<b>Rotation</b>	Counterclockwise facing flywheel		

### Recreational Ratings

kW	HP*	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
179	250	3000	50.5	13.4	HO	IMO

\*Metric Horsepower

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	773.6	(30.46)
<b>Width</b> mm (in)	829	(32.64)
<b>Height</b> mm (in)	773.4	(30.45)
<b>Weight</b> kg (lb)	454	(1001)
<b>Overall</b>		
<b>Length</b> mm (in)	1094.1	(43.08)



# 6B5.9-M

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Naturally Aspirated	
<b>Displacement</b>	5.9 liters	359.0 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	102x120 mm	4.02x4.72 in
<b>Compression Ratio</b>	17.3:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
86	115	2500	23.7	6.3	MCD	N/A
90	120	2800	25.0	6.6	INT	N/A

### General Engine Dimensions

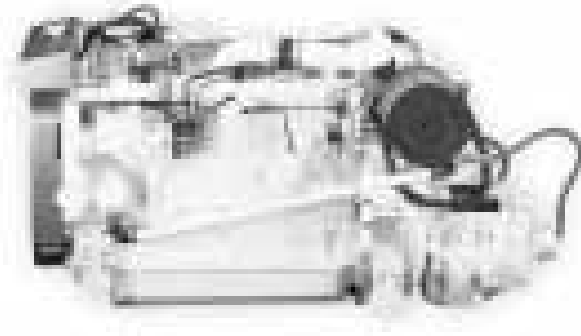
Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1138	(45)
<b>Width</b> mm (in)	704	(28)
<b>Height</b> mm (in)	894	(35)
<b>Weight</b> kg (lb)	452	(995)
<b>Overall</b>		
<b>Length</b> mm (in)	1493.2	(58.79)

# 6BT5.9-M

# 220B

## Main Propulsion



### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged	
<b>Displacement</b>	5.9 liters	359.0 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	102x120 mm	4.02x4.72 in
<b>Compression Ratio</b>	16.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
134	180	2500	37.8	10.0	MCD	IMO
157	210	2600	44.9	11.9	INT	IMO

### Recreational Ratings

kW	HP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
157	220	2600	44.9	11.9	HO	IMO

Metric Horsepower

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1073.65	(42.27)
<b>Width</b> mm (in)	710.9	(27.99)
<b>Height</b> mm (in)	812.2	(31.98)
<b>Weight</b> kg (lb)	466	(1025)
<b>Overall</b>		
<b>Length</b> mm (in)	1393.7	(54.87)

# 6BTA5.9-M

## 270B

## 330B

## 370B



### Main Propulsion

#### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	5.9 liters	359.0 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	102x120 mm	4.02x4.72 in
<b>Compression Ratio</b>	15.3:1-15.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

#### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
168	225	2500	46.9	12.4	MCD (JW)	IMO
194	260	2600	56.8	15.0	INT (JW)	IMO
209	280	2600	54.1	14.3	MCD (SW)	IMO
235	315	2800	63.7	16.8	INT (SW)	IMO

#### Recreational Ratings

kW	HP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
194	270	2600	56.8	15.0	HO (JW)	IMO
235	330	2800	63.7	16.8	HO (SW)	IMO
265	370	3000	76.1	20.1	HO (SW)	IMO

Metric Horsepower

#### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

	JW		SW	
<b>Length</b> mm (in)	1028.1	(40.48)	1041	(41)
<b>Width</b> mm (in)	825.9	(32.52)	816	(32.15)
<b>Height</b> mm (in)	837.2	(32.96)	771.2	(30.4)
<b>Weight</b> kg (lb)	517	(1140)	581	(1280)
<b>Overall Length</b> mm (in)	1244.2	(48.98)	1318.6	(51.91)

**QSB5.9-230****QSB5.9-355****QSB5.9-305****QSB5.9-380****QSB5.9-330****Main Propulsion***General Specifications*

<b>Configuration</b>	In-line 6 cylinder, 4 stroke diesel	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	5.9 liters	359.0 in
<b>Bore &amp; Stroke</b>	102x120 mm	4.02x4.72 in
<b>Compression Ratio</b>	17.2:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

*Commercial Ratings*

kW	HP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
169	230	2600	42.7	11.4	HD	EPA2
225	305	2600	56.8	15.0	MCD	EPA2
261	355	2800	69.7	18.4	INT	EPA2

*Recreational Ratings*

kW	HP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
169	230	2600	42.7	11.4	HO	IMO
225	305	2600	56.8	15.0	HO	IMO
243	330	2800	62.7	16.6	HO	IMO
261	355	2800	69.7	18.4	HO	IMO
280	380	3000	75.2	19.9	HO	IMO

All ratings meet EPA Tier 2 emissions requirements for 2006.

*General Engine Dimensions*

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1255.6	(49.43)
<b>Width</b> mm (in)	835.8	(32.91)
<b>Height</b> mm (in)	858.4	(33.8)
<b>Weight</b> kg (lb)	588	(1296)

Metric Horsepower

# 6CTA8.3-M

# 450C

# 480C-E



## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	8.3 liters	504.5 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	114x135 mm	4.49x5.32 in
<b>Compression Ratio</b>	15.35:1-15.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
190	255	1800	50.9	13.4	CON (JW)	IMO
261	350	2500	69.7	18.4	INT (SW)	IMO
321	430	2600	88.0	23.2	INT (SW)	IMO

### Recreational Ratings

kW	HP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
321	450	2600	88.0	23.2	HO (SW)	IMO
344	480	2600	97.3	25.7	HO (SW)	IMO

Metric Horsepower

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

	JW		SW	
<b>Length</b> mm (in)	1177.3	(41.02)	1161.5	(45.7)
<b>Width</b> mm (in)	848.9	(33.42)	908.8	(35.78)
<b>Height</b> mm (in)	953.6	(37.54)	921.5	(36.28)
<b>Weight</b> kg (lb)	712	(1570)	856	(1885)
<b>Overall Length</b> mm (in)	1594.4	(62.77)	1423.8	(56.05)

# QSC8.3-490

# QSC8.3-540

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke diesel	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	8.3 liters	505 in
<b>Bore &amp; Stroke</b>	114x135 mm	4.49x5.31 in
<b>Compression Ratio</b>	16.3:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Recreational Ratings

kW	HP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
361	490	2500	95.5	25.2	INT	EPA2
397	540	2600	109.9	29	HO	IMO

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1426	(56.1)
<b>Width</b> mm (in)	964	(37.9)
<b>Height</b> mm (in)	981	(38.6)
<b>Weight</b> kg (lb)	895	(1975)

Metric Horsepower

# QSL9-285

# QSL9-330

# QSL9-405

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke diesel		
<b>Aspiration</b>	Turbocharged/Aftercooled		
<b>Displacement</b>	8.9 liters	542 in	
<b>Bore &amp; Stroke</b>	114x145 mm	4.49x5.71 in	
<b>Compression Ratio</b>			
<b>Rotation</b>	Counterclockwise facing flywheel		

### Commercial Ratings

kW	HP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
209	285	1800	54.5	14.4	CON	EPA2
243	330	1800	62.8	16.6	HD	EPA2
298	405	2100	79.5	21	MCD	EPA2

### Recreational Ratings

kW	HP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
209	285	1800	54.5	14.4	HO	IMO
243	330	1800	62.8	16.6	HO	IMO
298	405	2100	79.5	21	HO	IMO

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1408.8	(55.27)
<b>Width</b> mm (in)	888.8	(34.99)
<b>Height</b> mm (in)	870.6	(34.28)
<b>Weight</b> kg (lb)	907	(2000)

Metric Horsepower

# QSM11-M

## Main Propulsion



### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	10.8 liters	661 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	125x147 mm	4.92x5.79 in
<b>Compression Ratio</b>	16.1:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
336	455	2100	80.0	21.1	MCD	EPA2
433	590	2300	107	28.3	INT	EPA2

### Recreational Ratings

kW	HP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
399	545	2300	101.6	26.9	HO	IMO
448	610	2300	113.6	30.0	HO	IMO
474	645	2300	121.9	32.2	HO	IMO
492	670	2300	124.8	33.0	HO	IMO

All ratings meet EPA Tier 2 emissions requirements for 2006.

### General Engine Dimensions

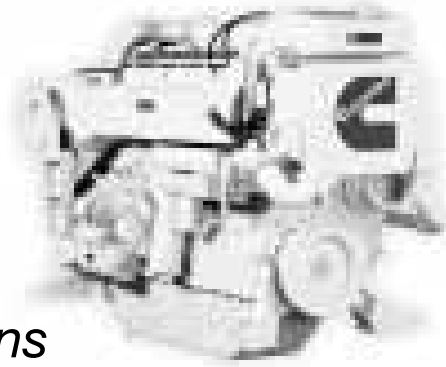
Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1353.9	(53.3)
<b>Width</b> mm (in)	981.6	(38.65)
<b>Height</b> mm (in)	1012.2	(39.85)
<b>Weight</b> kg (lb)	1125	(2475)
<b>Overall</b>		
<b>Length</b> mm (in)	1591.0	(62.64)

Metric Horsepower

# N14-M

## Main Propulsion



### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	14 liters	855 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	140x152 mm	5.50x6.00 in
<b>Compression Ratio</b>	17:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
269	360	1800	66.9	17.7	CON	IMO
298	400	1800	72.8	19.2	CON	IMO
328	440	1800	79.4	21.1	CON	IMO
358	480	1800	85.6	22.6	HD	IMO
392	525	2100	99.2	26.2	MCD	IMO

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1451.3	(57.14)	
<b>Width</b> mm (in)	946.5	(32.27)	
<b>Height</b> mm (in)	1295.4	(51.00)	
<b>Weight</b> kg (lb)	1610	(3549)	
<b>Overall</b>			
<b>Length</b> mm (in)	1727.9	(68.03)	KC
	1944.8	(76.57)	HX

# NT855-M

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged	
<b>Displacement</b>	14 liters	855 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	140x152 mm	5.50x6.00 in
<b>Compression Ratio</b>	14.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
179	240	1800	46.4	12.3	CON	N/A
201	270	1800	52.0	13.7	CON	N/A
224	300	1800	57.8	15.3	CON	N/A
254	340	1800	63.2	16.7	HD	N/A
269	360	2100	71.5	18.9	MCD	N/A

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1661	(65)
<b>Width</b> mm (in)	934.6	(36.79)
<b>Height</b> mm (in)	1745.8	(68.73)
<b>Weight</b> kg (lb)	1258	(2770)
<b>Overall</b>		
<b>Length</b> mm (in)	2263.6	(89.12)



# NTA855-M

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 Stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	14 liters	855 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	140x152 mm	5.50x6.00 in
<b>Compression Ratio</b>	14.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
261	350	1800	66.4	17.6	CON	N/A
283	380	1800	70.4	18.6	HD	N/A
298	400	2100	79.0	20.9	MCD	N/A

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1661	(65)
<b>Width</b> mm (in)	881.1	(34.69)
<b>Height</b> mm (in)	1859.7	(73.22)
<b>Weight</b> kg (lb)	1303	(2870)
<b>Overall</b>		
<b>Length</b> mm (in)	2115.1	(82.27)

# KT19-M

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged	
<b>Displacement</b>	19 liters	1150 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	15.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
272	365	1800	68.2	18.0	CON	N/A
283	380	1800	70.8	18.7	CON	N/A
317	425	1800	78.9	20.8	CON	N/A
351	470	1800	88.4	23.4	HD	N/A
380	510	2100	103.6	27.4	MCD	N/A

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1820.7	(71.68)	
<b>Width</b> mm (in)	1003.3	(39.50)	
<b>Height</b> mm (in)	1904.5	(74.98)	
<b>Weight</b> kg (lb)	1937	(4270)	
<b>Overall</b>			
<b>Length</b> mm (in)	1876.7	(73.99)	KC
	2158.3	(84.97)	HX



# KTA19-M

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	19 liters	1150 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	15.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
373	500	1800	92.2	24.3	CON	N/A
395	530	1800	98.2	25.9	HD	N/A
410	550	2100	102.6	27.1	MCD	N/A

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1820.7	(71.68)	
<b>Width</b> mm (in)	1003.3	(39.50)	
<b>Height</b> mm (in)	1904.5	(74.98)	
<b>Weight</b> kg (lb)	2073	(4570)	
<b>Overall</b>			
<b>Length</b> mm (in)	1876.7	(73.99)	KC
	2158.3	(84.97)	HX

# KTA19-M3

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	19 liters	1150 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	13.8:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
373	500	1800	92.7	24.5	CON	IMO/EPA1
395	530	1800	97.6	25.8	CON	IMO/EPA1
447	600	1800	108.3	28.6	CON	IMO/EPA1
477	640	1800	120.8	31.9	HD	IMO/EPA1

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1820.7	(71.68)	
<b>Width</b> mm (in)	1003.3	(39.50)	
<b>Height</b> mm (in)	1904.5	(74.98)	
<b>Weight</b> kg (lb)	2073	(4570)	
<b>Overall</b>			
<b>Length</b> mm (in)	1876.7	(73.99)	KC
	2158.3	(84.97)	HX



# KTA19-M4

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	19 liters	1150 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	13.8:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
522	700	2100	140.6	37.1	MCD	IMO/EPA1

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1820.7	(71.68)	
<b>Width</b> mm (in)	1003.3	(39.50)	
<b>Height</b> mm (in)	1904.5	(74.98)	
<b>Weight</b> kg (lb)	2073	(4570)	
<b>Overall</b>			
<b>Length</b> mm (in)	1876.7	(73.99)	KC
	2158.3	(84.97)	HX

# QSK19-M

## Main Propulsion

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	19 liters	1150 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	15:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

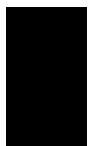
### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
492	660	1800	123.8	32.7	CON	IMO/EPA1
567	760	2100	144.7	38.2	HD	IMO/EPA1
597	800	2100	153.9	40.7	MCD	IMO/EPA1

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1792.0	(70.55)	
<b>Width</b> mm (in)	1064.6	(41.91)	
<b>Height</b> mm (in)	1647.4	(64.86)	
<b>Weight</b> kg (lb)	2373	(5231)	
<b>Overall</b>			
<b>Length</b> mm (in)	1987.7	(78.26)	KC
	2234.9	(87.99)	HX



# KTA38-MO

## Main Propulsion



### General Specifications

<b>Configuration</b>	V-12 cylinder, 4 stroke		
<b>Aspiration</b>	Turbocharged/Aftercooled		
<b>Displacement</b>	38 liters	2300 in <sup>3</sup>	
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in	
<b>Compression Ratio</b>	13.9:1		
<b>Rotation</b>	Counterclockwise facing flywheel		

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
559	750	1600	145.4	38.4	CON	IMO/EPA1
597	800	1800	155.5	41.1	CON	IMO/EPA1
634	850	1800	162.1	42.8	CON	IMO/EPA1

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	2003	(79)	
<b>Width</b> mm (in)	1465.6	(57.70)	
<b>Height</b> mm (in)	2055.5	(80.92)	KC
	1803.2	(70.99)	HX
<b>Weight</b> kg (lb)	4222	(9300)	
<b>Overall</b>			
<b>Length</b> mm (in)	2155.4	(84.86)	KC
	2476.0	(97.48)	HX

# KTA38-M1

## Main Propulsion



### General Specifications

<b>Configuration</b>	V-12 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	38 liters	2300 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	13.9:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
671	900	1600	169.5	44.8	CON	IMO/EPA1
746	1000	1800	185.1	48.9	CON	IMO/EPA1
820	1100	1800	200.3	52.9	HD	IMO/EPA1

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	2003	(79)	
<b>Width</b> mm (in)	1465.6	(57.70)	
<b>Height</b> mm (in)	2055.5	(80.92)	KC
	1803.2	(70.99)	HX
<b>Weight</b> kg (lb)	4222	(9300)	
<b>Overall</b>			
<b>Length</b> mm (in)	2155.4	(84.86)	KC
	2476.0	(97.48)	HX

# KTA38-M2

## Main Propulsion



### General Specifications

<b>Configuration</b>	V-12 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	38 liters	2300 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	13.9:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
783	1050	1600	201.4	53.2	CON	IMO/EPA1
895	1200	1800	224.4	59.3	CON	IMO/EPA1
969	1300	1800	239.2	63.2	HD	IMO/EPA1
1007	1350	1900	251.5	66.4	HD	IMO/EPA1
1007	1350	1950	246.3	65.1	HD	IMO/EPA1
1044	1400	1950	256.6	67.8	MCD	IMO/EPA1
1119	1500	2050	279.0	73.7	INT	IMO/EPA1

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	2003	(79)	
<b>Width</b> mm (in)	1465.6	(57.70)	
<b>Height</b> mm (in)	2055.5	(80.92)	KC
	1803.2	(70.99)	HX
<b>Weight</b> kg (lb)	4222	(9300)	
<b>Overall</b>			
<b>Length</b> mm (in)	2155.4	(84.86)	KC
	2476.0	(97.48)	HX

# KTA50-M2

## Main Propulsion



### General Specifications

<b>Configuration</b>	V-16 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	50 liters	3067 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	13.8:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
1044	1400	1600	261.2	69.0	CON	IMO/EPA1
1194	1600	1800	295.2	78.0	CON	IMO/EPA1
1268	1700	1800	307.5	81.2	HD	IMO/EPA1
1343	1800	1900	318.1	84.0	HD	IMO/EPA1
1399	1875	1950	348	91.9	MCD	IMO/EPA1
1492	2000	2050	367.1	97.0	INT	IMO/EPA1

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b>	mm (in)	2603.4 (102.5)	KC
		2618.0 (103.07)	HX
<b>Width</b>	mm (in)	1488.6 (58.61)	KC
		1466.2 (57.73)	HX
<b>Height</b>	mm (in)	1930.6 (76.01)	KC
		1930.6 (76.01)	HX
<b>Weight</b>	kg (lb)	5431 (11973)	
<b>Overall</b>			
<b>Length</b>	mm (in)	2865.7 (112.82)	HX

# QSK60-M

## Main Propulsion



### General Specifications

<b>Configuration</b>	V-16 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	60.2 liters	3672 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x190 mm	6.25x7.48 in
<b>Compression Ratio</b>	14.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Commercial Ratings

kW	BHP	RPM	Fuel Cons		Rating	Emissions
			L/hr	G/hr		
1492	2000	1800	366	96.7	CON	IMO/EPA1
1641	2200	1800	403	106.4	CON	IMO/EPA1
1716	2300	1900	427	112.8	HD	IMO/EPA1

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b>	3255	128.1
<b>Width</b>	1730	68.1
<b>Height</b>	2131	83.9
<b>Weight</b>	8282	18220

# 4B3.9-D(M)

## Marine Generator Drive

### General Specifications

<b>Configuration</b>	In-line 4 cylinder, 4 stroke	
<b>Aspiration</b>	Naturally Aspirated	
<b>Displacement</b>	3.9 liters	239 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	102x120 mm	4.02x4.75 in
<b>Compression Ratio</b>	17.3:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Prime Power @ 50 Hz (1500 rpm)

Output Power		Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr
37	50	33	9.7	2.6
				N/A

### Prime Power @ 60 Hz (1800 rpm)

Output Power		Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr
45	60	39	12.8	3.4
				N/A

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	762	(30)
<b>Width</b> mm (in)	772	(31)
<b>Height</b> mm (in)	774	(30.47)
<b>Weight</b> kg (lb)	316	(695)
<b>Overall</b>		
<b>Length</b> mm (in)	775.9	(30.55)

# 4BT3.9-D(M)

## Marine Generator Drive

### General Specifications

<b>Configuration</b>	In-line 4 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged	
<b>Displacement</b>	3.9 liters	239 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	102x120 mm	4.02x4.75 in
<b>Compression Ratio</b>	16.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Prime Power @ 50 Hz (1500 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
46	62	42	11.9	3.2	N/A
49	66	44	12.8	3.4	N/A

### Prime Power @ 60 Hz (1800 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
58	78	52	15.0	4.0	N/A
69	92	62	17.6	4.7	N/A

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	775.9	(30.55)
<b>Width</b> mm (in)	583.3	(22.96)
<b>Height</b> mm (in)	907.5	(35.73)
<b>Weight</b> kg (lb)	331	(730)
<b>Overall Length</b> mm (in)	775.7	(30.54)

# 6B5.9-D(M)

## Marine Generator Drive

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Naturally Aspirated	
<b>Displacement</b>	5.9 liters	359 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	102x120 mm	4.02x4.75 in
<b>Compression Ratio</b>	17.0:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Prime Power @ 50 Hz (1500 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
54	72	48	15.9	4.2	N/A

### Prime Power @ 60 Hz (1800 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
66	88	59	18.4	4.9	N/A

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1060	(42)
<b>Width</b> mm (in)	600.8	(23.65)
<b>Height</b> mm (in)	1201	(47)
<b>Weight</b> kg (lb)	427	(940)

# 6BT5.9-D(M)

## Marine Generator Drive

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged	
<b>Displacement</b>	5.9 liters	359 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	102x120 mm	4.02x4.75 in
<b>Compression Ratio</b>	16.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Prime Power @ 50 Hz (1500 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
78	104	71	19.8	5.2	N/A
91	122	83	22.4	5.9	N/A

### Prime Power @ 60 Hz (1800 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
91	122	83	23.4	6.2	N/A
112	150	102	27.1	7.2	N/A

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1062	(42)
<b>Width</b> mm (in)	600.8	(23.65)
<b>Height</b> mm (in)	1201	(47)
<b>Weight</b> kg (lb)	426	(940)
<b>Overall Length</b> mm (in)	1019.9	(40.15)

# 6CT8.3-D(M)

## Marine Generator Drive

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged	
<b>Displacement</b>	8.3 liters	(504.5 in <sup>3</sup> )
<b>Bore &amp; Stroke</b>	114x135 mm	4.49x5.32 in
<b>Compression Ratio</b>	16.8:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Prime Power @ 50 Hz (1500 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
122	164	113	30	8.0	IMO

### Prime Power @ 60 Hz (1800 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
140	188	129	37	9.6	IMO

\*KWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1182	(47)
<b>Width</b> mm (in)	710	(28)
<b>Height</b> mm (in)	1137	(45)
<b>Weight</b> kg (lb)	684	(1505)

# 6CTA8.3-DC(M)

## Marine Generator Drive

### *General Specifications*

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	8.3 liters	(504.5 in <sup>3</sup> )
<b>Bore &amp; Stroke</b>	114x135 mm	4.49x5.32 in
<b>Compression Ratio</b>	16.8:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### **Prime Power @ 50 Hz (1500 rpm)**

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
163	219	150	40	10.6	IMO
164	220	151	41.3	10.9	IMO

### **Prime Power @ 60 Hz (1800 rpm)**

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
181	242	166	46.6	12.3	IMO
188	252	173	47	12.5	IMO
201	270	185	56.6	14.9	IMO/EPA2

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### *General Engine Dimensions*

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1182	(46.5)
<b>Width</b> mm (in)	720	(28.34)
<b>Height</b> mm (in)	1137	(44.8)
<b>Weight</b> kg (lb)	702	(1545)

# NT855-D(M)

## Marine Generator Drive

### *General Specifications*

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged	
<b>Displacement</b>	14 liters	855 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	140X152 mm	5.50x6.00 in
<b>Compression Ratio</b>	14.0:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### **Prime Power @ 50 Hz (1500 rpm)**

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
209	280	194	51	13.6	N/A
231	310	215	57	15	N/A
242	325	225	60	16	N/A

### **Prime Power @ 60 Hz (1800 rpm)**

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
254	340	236	64	16.9	N/A
265	355	246	67	17.6	N/A
295	395	274	74	19.6	N/A

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### *General Engine Dimensions*

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1298	(61)
<b>Width</b> mm (in)	817	(32)
<b>Height</b> mm (in)	1367	(53)
<b>Weight</b> kg (lb)	1388	(3060)

# NTA855-D(M)

## Marine Generator Drive

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	14 liters	855 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	140x152 mm	5.50x6.00 in
<b>Compression Ratio</b>	14.0:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Prime Power @ 50 Hz (1500 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
280	375	260	70	18.4	N/A
306	410	284	73	19.3	N/A

### Prime Power @ 60 Hz (1800 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
313	420	295	79	20.9	N/A
358	480	337	87	22.9	N/A

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1298	(61)
<b>Width</b> mm (in)	817	(32)
<b>Height</b> mm (in)	1367	(53)
<b>Weight</b> kg (lb)	1433	(3160)

# KTA19-D(M)

## Marine Generator Drive

### *General Specifications*

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	19 liters	1150 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	13.9:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### **Prime Power @ 50 Hz (1500 rpm)**

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
336	450	316	83	21.8	N/A
403	540	379	97	25.5	IMO/EPA1
448	600	421	107	28.4	N/A

### **Prime Power @ 60 Hz (1800 rpm)**

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
392	525	368	98	26	N/A
463	620	435	111	29.3	IMO/EPA1
507	680	477	120	31.7	N/A

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### *General Engine Dimensions*

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1710	(67)
<b>Width</b> mm (in)	765	(25)
<b>Height</b> mm (in)	1376	(54)
<b>Weight</b> kg (lb)	1814	(4000)

# KTA19-DC(M1)

## Marine Generator Drive

### General Specifications

<b>Configuration</b>	In-line 6 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	19 liters	1150 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	13.9:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Prime Power @ 50 Hz (1500 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
358	480	337	91	24.1	IMO/EPA1
410	550	386	103	27.1	IMO/EPA1

### Prime Power @ 60 Hz (1800 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
425	570	400	106	28.1	IMO/EPA1
485	650	456	121	31.9	IMO/EPA1

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1547	(61)
<b>Width</b> mm (in)	911.3	(35.88)
<b>Height</b> mm (in)	1483.7	(58.41)
<b>Weight</b> kg (lb)	1724	(3800)
<b>Overall Length</b> mm (in)	1906.6	75.06

# VTA28-DCM

## Marine Generator Drive

### General Specifications

<b>Configuration</b>	V-12 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	28 liters	1710 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	140x152 mm	5.50x6.00 in
<b>Compression Ratio</b>	13.1:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Prime Power @ 50 Hz (1500 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
560	750	526	140	37	IMO

### Prime Power @ 60 Hz (1800 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
515	690	484	135	35.7	N/A
560	750	526	N/A	N/A	N/A
608	815	572	154	40.7	IMO

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	1900	(75)
<b>Width</b> mm (in)	995	(39)
<b>Height</b> mm (in)	1641	(65)
<b>Weight</b> kg (lb)	2901	(6395)

# KTA38-DC(M)

## Marine Generator Drive

### General Specifications

<b>Configuration</b>	V-12 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	38 liters	2300 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	13.9-14.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Prime Power @ 50 Hz (1500 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
664	890	637	N/A	N/A	N/A
850	634	609	N/A	N/A	N/A
880	1180	845	209	55.1	N/A

### Prime Power @ 60 Hz (1800 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
768	1030	738	195	51.5	N/A
809	1085	777	204	54	N/A
910	1220	874	218	57.5	N/A
1007	1350	967	245	64.6	N/A

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	2341	(92)
<b>Width</b> mm (in)	1320	(52)
<b>Height</b> mm (in)	1651	(65)
<b>Weight</b> kg (lb)	3997	(8805)

# KTA38-DCM1

## Marine Generator Drive

### *General Specifications*

<b>Configuration</b>	V-12 cylinder, 4 stroke
<b>Aspiration</b>	Turbocharged/Aftercooled
<b>Displacement</b>	38 liters                      2300 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm 6.25x6.25 in
<b>Compression Ratio</b>	13.9-14.5:1
<b>Rotation</b>	Counterclockwise facing flywheel

### **Prime Power @ 50 Hz (1500 rpm)**

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
746	1000	716	177	46.7	IMO/EPA1
880	1180	845	206	54.5	IMO/EPA1

### **Prime Power @ 60 Hz (1800 rpm)**

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
821	1100	788	196	51.7	IMO/EPA1
970	1300	931	227	59.9	IMO/EPA1

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### *General Engine Dimensions*

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	2003	(79.1)
<b>Width</b> mm (in)	1362	(54)
<b>Height</b> mm (in)	1661	(65)
<b>Weight</b> kg (lb)	4301	(9482)

# KTA50-DC(M)

## Marine Generator Drive

### *General Specifications*

<b>Configuration</b>	V-16 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	50 Liters	3067 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	13.9-14.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### **Prime Power @ 50 Hz (1500 rpm)**

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
880	1180	845	217	57.4	N/A
900	1206	864	N/A	N/A	N/A
1097	1470	1053	N/A	N/A	N/A

### **Prime Power @ 60 Hz (1800 rpm)**

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
1000	1340	960	N/A	N/A	N/A
1007	1350	967	253	66.8	N/A
1220	1635	1171	282	74.5	N/A

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### *General Engine Dimensions*

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	2638	(112)
<b>Width</b> mm (in)	1415	(56)
<b>Height</b> mm (in)	1766	(70)
<b>Weight</b> kg (lb)	5148	(11340)

# KTA50-DC(M1)

## Marine Generator Drive

### General Specifications

<b>Configuration</b>	V-16 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	50 Liters	3067 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	13.9-14.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Prime Power @ 50 Hz (1500 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
1007	1350	967	229	60.5	IMO/EPA1
1097	1470	1053	245	64.6	IMO/EPA1

### Prime Power @ 60 Hz (1800 rpm)

Output Power			Fuel Cons		Emissions
kW	bhp	kWe*	L/hr	G/hr	
1141	1530	1096	263	69.4	IMO/EPA1
1291	1730	1239	291	76.8	IMO/EPA1

\*kWe reflects the approximate amount of power available when used in a keel cooled genset configuration.

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	2591	(102)
<b>Width</b> mm (in)	1362	(54)
<b>Height</b> mm (in)	1661	(65)
<b>Weight</b> kg (lb)	4853	(10700)

# KTA50-D(M2)

## Marine Generator Drive

### *General Specifications*

<b>Configuration</b>	V-16 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	50 Liters	3067 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x159 mm	6.25x6.25 in
<b>Compression Ratio</b>	13.9:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### **Prime Power @ 50 Hz (1500 rpm)**

kW	bhp	kWe	L/hr	G/hr	Emissions
1200	1608	1152	229	76.3	IMO/EPA1

### **Prime Power @ 60 Hz (1800 rpm)**

kW	bhp	kWe	L/hr	G/hr	Emissions
1384	1855	1328	331	87.3	IMO/EPA1

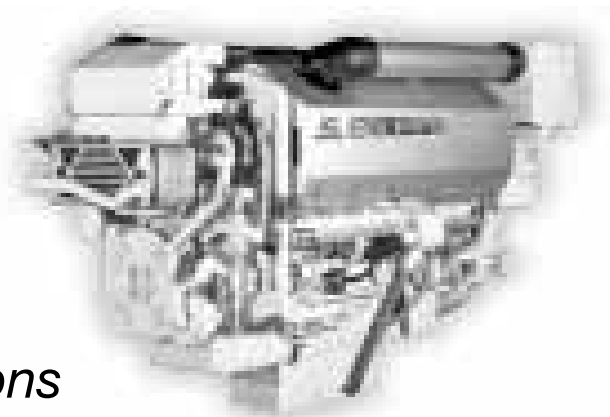
### *General Engine Dimensions*

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	2591	(102)
<b>Width</b> mm (in)	1362	(54)
<b>Height</b> mm (in)	1661	(65)
<b>Weight</b> kg (lb)	5361	(11820)

# QSK60-D(M)

## Marine Generator Drive



### General Specifications

<b>Configuration</b>	V-16 cylinder, 4 stroke	
<b>Aspiration</b>	Turbocharged/Aftercooled	
<b>Displacement</b>	60.2 liters	3672 in <sup>3</sup>
<b>Bore &amp; Stroke</b>	159x190 mm	6.25x7.48 in
<b>Compression Ratio</b>	14.5:1	
<b>Rotation</b>	Counterclockwise facing flywheel	

### Prime Power @ 50 Hz (1500 rpm)

kW	bhp	kWe	L/hr	G/hr	Emissions
1563	2095	1500	372	98.4	IMO/EPA1

### Prime Power @ 60 Hz (1800 rpm)

kW	bhp	kWe	L/hr	G/hr	Emissions
1900	2547	1825	461	121.9	IMO/EPA1

### General Engine Dimensions

Dimensions may vary based on selected engine configuration.

<b>Length</b> mm (in)	3399	(133.8)
<b>Width</b> mm (in)	1648	(64.9)
<b>Height</b> mm (in)	2095	(82.5)
<b>Weight</b> kg (lb)	8277	(18209)

# Common Conversions

## *Length*

1 mm	=	0.03937 in
1 m	=	3.28 ft
1 km	=	0.539 nautical mile
1 km	=	0.62 statute mile

## *Mass*

1 g	=	0.035 oz
1 kg	=	2.2 lb
1 metric ton	=	1.1 ton (short)

## *Torque*

1 Nm	=	0.74 lb ft
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## *Power*

1 kW	=	1.36 metric HP
1 kW	=	1.341 BHP
1 BHP	=	1.014 Metric HP

## *Temperature*

1°C	=	(°F+32)/1.8
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## *Horsepower/Torque*

$$(\text{BHP} \times 5252) / \text{RPM} = \text{Torque}$$

$$(\text{Torque} \times \text{RPM}) / 5252 = \text{BHP}$$

## *BSFC*

$$\text{BSFC} = (\text{L/hr} \times 838.9 \text{ g/L}) / \text{kW}$$

$$\text{BSFC} = (\text{G/hr} \times 7.001 \text{ lb/US gal}) / \text{HP}$$

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