



Marine Systems

PROPULSION AND
GENERATOR SET POWER



Cat Marine Systems

GUIDEBOOK FOR MODEL SELECTION

This booklet will assist you in selecting the Marine Engine/Transmission and Marine Generator Set that's right for you.

There are power/propulsion systems at work in tens of thousands of vessels worldwide.

Each vessel has its own unique operating requirements. The power/propulsion system must be selected to meet those requirements. The system must be able to provide the power/propulsion needed to operate the vessel under the most demanding conditions.

Cat Marine Systems offer you

- Complete, coordinated propulsion packages. Engines and Transmissions are factory matched for operational efficiency — factory engineered for ease of installation. Design compatibility allows easier and scheduling of their overhaul, reducing repair time and expense.

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- Complete marine generator sets. Available in a wide range of power ratings and voltages for easy selection to meet requirements.

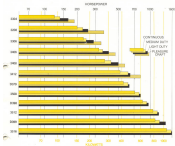
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- Marine classification society certification. Available for Caterpillar Engines, Transmissions, and Generators.

In addition, most classification societies have granted "White approval" to our facilities. With this approval, marine engines, transmissions, generators, and replacement parts can be fully certified and built from local stock.

- Worldwide parts and service support from your Caterpillar Dealer. Our global network of dealers is backed by 24 strategically located part parts facilities. Around the clock, worldwide service centers, including parts, are your Cat Dealer for the Marine Service Center. (Form No. 1-800-4-A-CAT)

Selection Chart for Cat Marine Propulsion Diesels



ENGINE OPERATIONS

The following information will help you select the correct ratings for different applications:

CONTINUOUS SERVICE For stationary service where the engine is operated at rated load and speed without stop, coast or back-firing.

SEMI-CONTINUOUS SERVICE For service where engine load and speed are constant with some idling.

LIGHT DUTY SERVICE For service where engine load and speed are variable.

PLEASURE CRAFT For use in recreational vessels only.

LOADING CONDITIONS

ratings are based on full 24-hour service conditions of 100% air flow at 100% relative humidity. These ratings may vary with altitude, sea level and other ambient conditions. For 80% and 90% relative humidity, multiply the 100% ratings by 0.87 and 0.91, respectively.

ratings are based on power requirements of a typical load with generator and fuel oil heating at 100% efficiency and 100% load. Maximum 1.25 factor, per 1000 gph.

CONVERSION FORMULAS

To convert gph to gal or metric liters and specific fuel consumption:

1 gal = 3.785 liters (gal \times .264 = liters)

1 L = 0.264 gal. (L \times 3.785 = gal)

ABBREVIATIONS

T — Torque
HP — Horsepower
MA — Maximum Airflow
WHP — Water Horsepower
WHP — Water Horsepower

ENGINE APPROVAL
WMA — Water Horsepower
WMA — Water Horsepower
WMA — Water Horsepower

GENIE MOTOR

WMA — Water Horsepower
WMA — Water Horsepower
WMA — Water Horsepower

3208



3208

Block - Stroke	3208/32	32.0 x 100.0
Block/Head	3208/32	32.0 x 100.0
Block/Head/Injection Valve	3208/32	32.0 x 100.0
Block/Head/Injection Valve	3208/32	32.0 x 100.0
Block/Head/Injection Valve	3208/32	32.0 x 100.0
Block/Head/Injection Valve	3208/32	32.0 x 100.0

Dimensions and weights shown for 3208/32 only.



Rating and Fuel Consumption

	3208	Rated Output - ISO 1585				Power Output - ISO 1585				3208
		kg	hp	kW	rpm	kg	hp	kW	rpm	
Maximum	3208	24	17.0	12.5	1500	24	17.0	12.5	1500	3208
Maximum Torque	3208	24	17.0	12.5	1500	24	17.0	12.5	1500	3208
Light Duty Maximum	3208	24	17.0	12.5	1500	24	17.0	12.5	1500	3208
Maximum Fuel	3208	24	17.0	12.5	1500	24	17.0	12.5	1500	3208

3304



3304

Block - Stroke	3304/32	32.0 x 100.0
Block/Head	3304/32	32.0 x 100.0
Block/Head/Injection Valve	3304/32	32.0 x 100.0
Block/Head/Injection Valve	3304/32	32.0 x 100.0
Block/Head/Injection Valve	3304/32	32.0 x 100.0
Block/Head/Injection Valve	3304/32	32.0 x 100.0

Dimensions and weights shown for 3304/32 only.



Rating and Fuel Consumption

	3304	Rated Output - ISO 1585				Power Output - ISO 1585				3304
		kg	hp	kW	rpm	kg	hp	kW	rpm	
Maximum	3304	24	17.0	12.5	1500	24	17.0	12.5	1500	3304
Maximum Torque	3304	24	17.0	12.5	1500	24	17.0	12.5	1500	3304
Light Duty Maximum	3304	24	17.0	12.5	1500	24	17.0	12.5	1500	3304
Maximum Fuel	3304	24	17.0	12.5	1500	24	17.0	12.5	1500	3304

3306



Figure 3

Net Weight	2 070 kg	4 570 lb
Maximum Gross Weight	2 600 kg	5 730 lb
Maximum Gross Weight with Accessories	3 000 kg	6 600 lb
Net Oil Weight	100 kg	220 lb
Maximum Oil Weight	120 kg	265 lb
Maximum Oil Volume	100 L	26.4 gal

Dimensions and weights shown for 3306 T and 3306 D1



ratings and Fuel Consumption

	rpm	Maximum Power — Torque (kN-m)				Maximum Power — Output Water Temperature (°C)				Maximum Power — Output Water Temperature — 50 °C (122 °F)			
		1 800	2 100	2 400	2 700	1 800	2 100	2 400	2 700	1 800	2 100	2 400	2 700
Net Power (kW)	200	124	142	155	163	125	140	152	157	126	141	152	157
Net Power (hp)	270	168	194	211	221	170	194	211	214	172	196	211	214
Maximum Torque (kN-m)	2 000	218	274	320	353	220	287	333	363	220	285	331	363
Maximum Torque (lb-ft)	2 900	308	390	454	507	319	410	477	521	319	409	476	521

For full specifications refer to specification sheet 3306-3.

3406



Figure 4

Net Weight	2 600 kg	5 730 lb
Maximum Gross Weight	3 200 kg	7 050 lb
Maximum Gross Weight with Accessories	3 600 kg	7 940 lb
Net Oil Weight	100 kg	220 lb
Maximum Oil Weight	120 kg	265 lb
Maximum Oil Volume	100 L	26.4 gal

Dimensions and weights shown for 3406 T and 3406 D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D60, D61, D62, D63, D64, D65, D66, D67, D68, D69, D70, D71, D72, D73, D74, D75, D76, D77, D78, D79, D80, D81, D82, D83, D84, D85, D86, D87, D88, D89, D90, D91, D92, D93, D94, D95, D96, D97, D98, D99, D100



ratings and Fuel Consumption

	rpm	Maximum Power — Torque (kN-m)				Maximum Power — Output Water Temperature			
		1 800	2 100	2 400	2 700	1 800	2 100	2 400	2 700
Net Power (kW)	270	157	176	187	194	158	174	185	191
Net Power (hp)	363	212	236	255	265	214	236	253	260
Maximum Torque (kN-m)	2 000	301	370	420	453	301	370	420	453
Maximum Torque (lb-ft)	2 900	347	430	484	517	347	430	484	517

3408

Rated Power 150 kW (200 hp) **Rated RPM** 2100
Rated Torque 660 Nm (485 lb-ft) **Rated Fuel** Diesel
Rated Fuel Consumption 20.5 g/kWh **Compression Ratio** 16.5:1
Rated Air Flow 10.5 m³/min **Net Weight** 1000 kg
Rated Air Intake 10.5 m³/min **Net Weight** 1000 kg
Dimensions 767 x 767 mm **Net Weight** 1000 kg
Maximum Installation Height Above Sea Level



ratings and Fuel Consumption

	Rated Power kW	Best Engine Performance				Emission Level 100% Approved				Best Engine Performance			
		75	100	125	150	75	100	125	150	75	100	125	150
Continous	150	24	24	24	24	24	24	24	24	24	24	24	24
Maximum	150	24	24	24	24	24	24	24	24	24	24	24	24
Continous	150	24	24	24	24	24	24	24	24	24	24	24	24
Maximum	150	24	24	24	24	24	24	24	24	24	24	24	24

3412

Rated Power 200 kW (270 hp) **Rated RPM** 2100
Rated Torque 880 Nm (646 lb-ft) **Rated Fuel** Diesel
Rated Fuel Consumption 20.5 g/kWh **Compression Ratio** 16.5:1
Rated Air Flow 13.5 m³/min **Net Weight** 1200 kg
Rated Air Intake 13.5 m³/min **Net Weight** 1200 kg
Dimensions 767 x 767 mm **Net Weight** 1200 kg
Maximum Installation Height Above Sea Level



ratings and Fuel Consumption

	Rated Power kW	Best Engine Performance				Emission Level 100% Approved			
		75	100	125	150	75	100	125	150
Continous	200	24	24	24	24	24	24	24	24
Maximum	200	24	24	24	24	24	24	24	24
Continous	200	24	24	24	24	24	24	24	24
Maximum	200	24	24	24	24	24	24	24	24

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3508



Displacement: 5.7 L (3.5 cu in)
Configuration: V8, 90°
Maximum Gross Output (kW): 200 (275 hp)
Maximum Gross Output (hp): 275 (200 kW)
Rated Output (kW): 170 (230 hp)
Rated Output (hp): 230 (170 kW)
Maximum Torque (kNm): 32.5 (239 ft-lb)
Maximum Torque (ft-lb): 239 (32.5 kNm)
Compression: 16.5:1
Maximum Crankshaft Speed (RPM): 2200



ratings and Fuel Consumption

Parameter	RPM	Maximum Gross Output (kW)			
		1800	2000	2200	2400
Maximum Gross Output (kW)	1800	170	190	200	200
Maximum Gross Output (hp)	1800	230	260	275	275
Rated Output (kW)	1800	170	170	170	170
Rated Output (hp)	1800	230	230	230	230
Maximum Torque (kNm)	1800	32.5	32.5	32.5	32.5
Maximum Torque (ft-lb)	1800	239	239	239	239

Parameter	RPM	Maximum Gross Output (hp)			
		1800	2000	2200	2400
Maximum Gross Output (hp)	1800	230	260	275	275
Maximum Gross Output (kW)	1800	170	190	200	200
Rated Output (hp)	1800	230	230	230	230
Rated Output (kW)	1800	170	170	170	170
Maximum Torque (kNm)	1800	32.5	32.5	32.5	32.5
Maximum Torque (ft-lb)	1800	239	239	239	239

3512



Displacement: 5.7 L (3.5 cu in)
Configuration: V8, 90°
Maximum Gross Output (kW): 200 (275 hp)
Maximum Gross Output (hp): 275 (200 kW)
Rated Output (kW): 170 (230 hp)
Rated Output (hp): 230 (170 kW)
Maximum Torque (kNm): 32.5 (239 ft-lb)
Maximum Torque (ft-lb): 239 (32.5 kNm)
Compression: 16.5:1
Maximum Crankshaft Speed (RPM): 2200



ratings and Fuel Consumption

Parameter	RPM	Maximum Gross Output (kW)			
		1800	2000	2200	2400
Maximum Gross Output (kW)	1800	170	190	200	200
Maximum Gross Output (hp)	1800	230	260	275	275
Rated Output (kW)	1800	170	170	170	170
Rated Output (hp)	1800	230	230	230	230
Maximum Torque (kNm)	1800	32.5	32.5	32.5	32.5
Maximum Torque (ft-lb)	1800	239	239	239	239

Parameter	RPM	Maximum Gross Output (hp)			
		1800	2000	2200	2400
Maximum Gross Output (hp)	1800	230	260	275	275
Maximum Gross Output (kW)	1800	170	190	200	200
Rated Output (hp)	1800	230	230	230	230
Rated Output (kW)	1800	170	170	170	170
Maximum Torque (kNm)	1800	32.5	32.5	32.5	32.5
Maximum Torque (ft-lb)	1800	239	239	239	239

3516



3516

Max. Crank	200 mm	200 mm
Stroke	130 mm	130 mm
Max. Crankshaft Speed	2200 rpm	2200 rpm
Max. Crankshaft Torque	1000 Nm	1000 Nm
Max. Crankshaft Power	100 kW	100 kW
Max. Crankshaft Torque	1000 Nm	1000 Nm
Max. Crankshaft Power	100 kW	100 kW



Rating and Fuel Consumption

	rpm	Output Power (kW)			
		750	1000	1500	2000
Rated Power	1500	100	100	100	100
Max. Power	1500	100	100	100	100
Rated Torque	1500	100	100	100	100
Max. Torque	1500	100	100	100	100
Rated Fuel Consumption	1500	100	100	100	100

	rpm	Max. Output Power (kW)			
		750	1000	1500	2000
Rated Power	1500	100	100	100	100
Max. Power	1500	100	100	100	100
Rated Torque	1500	100	100	100	100
Max. Torque	1500	100	100	100	100
Rated Fuel Consumption	1500	100	100	100	100

D379



D379

Max. Crank	200 mm	200 mm
Stroke	130 mm	130 mm
Max. Crankshaft Speed	2200 rpm	2200 rpm
Max. Crankshaft Torque	1000 Nm	1000 Nm
Max. Crankshaft Power	100 kW	100 kW
Max. Crankshaft Torque	1000 Nm	1000 Nm
Max. Crankshaft Power	100 kW	100 kW



Rating and Fuel Consumption

	rpm	Output Power (kW)			
		750	1000	1500	2000
Rated Power	1500	100	100	100	100
Max. Power	1500	100	100	100	100
Rated Torque	1500	100	100	100	100
Max. Torque	1500	100	100	100	100
Rated Fuel Consumption	1500	100	100	100	100

	rpm	Max. Output Power (kW)			
		750	1000	1500	2000
Rated Power	1500	100	100	100	100
Max. Power	1500	100	100	100	100
Rated Torque	1500	100	100	100	100
Max. Torque	1500	100	100	100	100
Rated Fuel Consumption	1500	100	100	100	100

Technical drawings: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

D398



Model: D398
Weight: 2450 kg (5400 lb)
Rated Output Power: 200 kW (270 hp)
Rated Output: 270 hp (200 kW)
Rated RPM: 1800
Rated Voltage: 240 V AC
Rated Frequency: 60 Hz

Dimensions and weight shown in US units only.



Settings and Fuel Consumption

	rpm	Rated Power (kW)			Rated Output (hp) - 230 °F (100 °C)			Rated Output (hp) - 212 °F (90 °C)		
		kg	gal	liters	kg	gal	liters	kg	gal	liters
Generator	1800	200	200	200	270	270	270	200	200	200
Generator/Tractor	1800	200	200	200	270	270	270	200	200	200
Tractor/Generator	1800	200	200	200	270	270	270	200	200	200

For more information, visit www.caterpillar.com or call 1-800-4-A-CATERPILLAR.

D399



Model: D399
Weight: 2450 kg (5400 lb)
Rated Output Power: 200 kW (270 hp)
Rated Output: 270 hp (200 kW)
Rated RPM: 1800
Rated Voltage: 240 V AC
Rated Frequency: 60 Hz

Dimensions and weight shown in US units only.



Settings and Fuel Consumption

	rpm	Rated Power (kW)			Rated Output (hp) - 230 °F (100 °C)			Rated Output (hp) - 212 °F (90 °C)		
		kg	gal	liters	kg	gal	liters	kg	gal	liters
Generator	1800	200	200	200	270	270	270	200	200	200
Generator/Tractor	1800	200	200	200	270	270	270	200	200	200
Tractor/Generator	1800	200	200	200	270	270	270	200	200	200

For more information, visit www.caterpillar.com or call 1-800-4-A-CATERPILLAR.

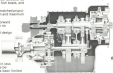
Cat 7200 Series Marine Transmissions

A Family of Series Dependable Transmissions

Designed to match applications ranging from 200 hp (147 kW) to 1800 hp (1314 kW), 7200's are built to operate with a range of workloads, fish boats, and pleasure craft.

The Cat 7200 Series ... assures you match the proper unit/package for work of installation and maximum operating efficiency.

- High-output power option in forward or reverse (except 725, 726) with no reduction of gear service life.
- Replacement parts made in stressed design and tested criteria required by major marine classification societies ... built approval eliminates the need for costly inspection of its product transmission.
- Recommended transmission (available fixed or overdrive) engine overhaul periods resulting in less reduced downtime. Recommended overhaul inspection and overhaul has been limited to easily accessible, service components.
- Available from Cat Dealers for installation with compatible 50-horse diesel engines.



	Transmission Type	Reduction Ratio
7211	Layshaft Single Reduction	0.80:1, 0.80:1, 0.80:1, 4.40:1, 0.80:1, 0.80:1
7221	Layshaft Single Reduction	0.80:1, 0.80:1, 0.80:1, 4.40:1, 0.80:1, 0.80:1
7231	Planetary Double Reduction	0.80:1, 0.80:1, 0.80:1, 4.40:1, 0.80:1, 0.80:1, 0.80:1, 0.80:1
7241	Planetary Double Reduction	1.00:1, 0.80:1, 0.80:1, 0.80:1, 4.40:1, 0.80:1, 0.80:1, 0.80:1, 1.00:1
7251	Planetary Double Reduction	1.00:1, 0.80:1, 0.80:1, 0.80:1, 4.40:1, 0.80:1, 0.80:1, 0.80:1, 1.00:1
7261	Planetary Double Reduction	0.80:1, 0.80:1, 0.80:1, 0.80:1, 0.80:1, 0.80:1, 0.80:1, 0.80:1, 1.00:1
7271	Layshaft Double Reduction	4.40:1, 0.80:1, 0.80:1, 4.40:1, 1.00:1, 0.80:1

Twin Disc Marine Transmissions

Reduction Ratio

MG 502	1.04:1, 0.80:1, 0.40:1
MG 506	1.00:1, 0.80:1, 0.80:1, 0.80:1, 0.80:1, 4.40:1
MG 507	1.00:1, 0.80:1, 0.80:1, 0.80:1, 0.80:1
MG 509	1.40:1, 0.80:1, 0.80:1, 0.80:1, 4.50:1
MG 514	0.80:1, 0.80:1, 0.80:1, 0.80:1, 4.50:1, 0.80:1

Marine Engine Attachments

A full range of attachments facilitates application of a Caterpillar Marine Engine to your specific requirements. Popular attachments are:

- **Power Takeoffs** — best enclosed coupling, built-in drive.
- **Protection Devices** — minimize explosion risk; reduce electrical and mechanical shorts.
- **Remotely-mounted Fuel Valve Controls** — installation controls systems.
- **Super Fuel-air Air Filters** — permit filter change without shutdown. Required for most countries and their governmental agencies.

- **Engine Instrument Panels** — provide fuel pressure, intake manifold temperature, lube oil pressure and temperature, water temperature, exhaust systems and fans/coolers.

- **Spare Parts Kits** — mandatory spare parts for on-board machinery to meet classification society requirements for unattended/manned service.

Contact your Caterpillar Dealer for availability by model of these and other attachments.



Super Fuel-air Air Filter



Engine Instrument Panel

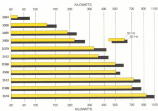


Remotely-mounted Fuel Valve Control



Power Takeoff

Selection Chart for Cat Marine Generator Sets



MARKING DEFINITIONS

Stave Power — for continuous electrical service.

METHOD CONVENTIONS

Ratings are based on full ambient standard conditions of 100°F (38°C) air temp and 90° (32°C) F. These ratings are subject to full 50% air, 50% salt and 50% MPA ambient conditions or 100% air, 0% salt and 0% MPA ambient conditions or 100% air, 0% salt and 50% MPA ambient conditions.

Fuel rates are based on fuel oil having an API of 15.850 (International Union and Atlantic 1.000) and 6.5 gal (248.2) per kW per hour.

CONVERSION FORMULAS

To convert kW to gal of fuel, divide kW by generator fuel consumption.

6.5 gal x 1.601305 gal = 10.4 gal = volume
 at 1.000 gal = 1.00 = grams

ABBREVIATIONS

- F — Fuel (Gallon)
- FA — Fuel (Gallon) Alternative
- SA — Stave Power Alternative
- SP — Stave Power Alternative
- MA — Marine Control Alternative

3304

Gross Power: 45.0 kW (60.8 hp) @ 2300 rpm
 Net Power: 42.0 kW (56.2 hp) @ 2300 rpm
 Maximum Torque: 160 N·m (117.6 ft·lb) @ 1500 rpm
 Maximum Altitude: 3000 m (9843 ft)

Dimensions shown in millimeters



In-Shop 4



Prime Power Ratings and Fuel Consumption

Engine	RPM	Diesel Generator – Maximum Output				Diesel Generator – 50% Output			
		kW	hp	liters/hr	gallons/hr	kW	hp	liters/hr	gallons/hr
3304	2300	42.0	56.2	17.5	12.5	45.0	60.8	17.5	12.5
3304	1500	—	—	—	—	—	—	—	—

3306

Gross Power: 60.0 kW (80.8 hp) @ 2300 rpm
 Net Power: 57.0 kW (76.2 hp) @ 2300 rpm
 Maximum Torque: 210 N·m (154.7 ft·lb) @ 1500 rpm
 Maximum Altitude: 3000 m (9843 ft)

Dimensions shown in millimeters



In-Shop 6



Prime Power Ratings and Fuel Consumption

Engine	RPM	Diesel Generator – Maximum Output				Diesel Generator – 50% Output			
		kW	hp	liters/hr	gallons/hr	kW	hp	liters/hr	gallons/hr
3306	2300	57.0	76.2	21.0	12.5	60.0	80.8	21.0	12.5
3306	1500	—	—	—	—	—	—	—	—

3406



Max. Power: 14.4 (10.5) kW (19.5 (14.0) hp)
 Maximum Torque: 280 (207) N·m (207 (151) lb·ft)
 Maximum Engine Speed: 1800 (R) 1800 (R) RPM
 Weight (dry/complete): 1000 (R) 1000 (R) kg
 Dimensions (see page 3406 for details)



Prime Power Ratings and Fuel Consumption

RPM	Fuel Consumption (liters/hour)	Max. Power - Continuous			Max. Power - 1-hour Max. Allowable		
		Power (kW)	Power (hp)	Fuel Consumption (liters/hour)	Power (kW)	Power (hp)	Fuel Consumption (liters/hour)
1800	10.0	14.4	19.5	11.5	15.5	10.5	14.0
1500	8.0	11.5	15.5	11.5	15.5	10.5	14.0

3408



Max. Power: 16.0 (11.8) kW (21.5 (15.5) hp)
 Maximum Torque: 300 (220) N·m (220 (163) lb·ft)
 Maximum Engine Speed: 1800 (R) 1800 (R) RPM
 Weight (dry/complete): 1000 (R) 1000 (R) kg
 Dimensions (see page 3408 for details)



Prime Power Ratings and Fuel Consumption

RPM	Fuel Consumption (liters/hour)	Max. Power - 1-hour Max. Allowable		
		Power (kW)	Power (hp)	Fuel Consumption (liters/hour)
1800	10.0	16.0	21.5	11.5
1500	8.0	16.0	21.5	11.5

3412

Net Power 100 kW
Rated Power 100 kW
Rated RPM 1800
Rated Torque 525 Nm
Max. Torque 600 Nm
Max. Fuel Flow 24.5 l/h
Max. Oil Flow 1.5 l/h
Max. Air Flow 100 m³/h
Weight 100 kg

For more information go to www.festo.com



VD



Table Power Ratings and Fuel Consumption

	PSI	Flow Capacity - Temperature				Temperature - Flow Capacity			
		PSI	MPa	gpm	lpm	PSI	MPa	gpm	lpm
3000	207	100	7.0	26.5	26.5	100	207	26.5	100
3500	241	100	7.0	26.5	26.5	100	241	26.5	100
4000	276	100	7.0	26.5	26.5	100	276	26.5	100

3508

Net Power 100 kW
Rated Power 100 kW
Rated RPM 1800
Rated Torque 525 Nm
Max. Torque 600 Nm
Max. Fuel Flow 24.5 l/h
Max. Oil Flow 1.5 l/h
Max. Air Flow 100 m³/h
Weight 100 kg

For more information go to www.festo.com



VD



Table Power Ratings and Fuel Consumption

	PSI	Flow Capacity - Temperature			
		PSI	MPa	gpm	lpm
3000	207	100	7.0	26.5	26.5
3500	241	100	7.0	26.5	26.5
4000	276	100	7.0	26.5	26.5

3512

Net Power 100 kW
Rated Power 120 kW
Rated RPM 1500 r/min
Rated Torque 750 N·m
Rated Fuel Consumption 20.0 g/kWh
Net Power 100 kW
Rated Power 120 kW
Rated RPM 1500 r/min
Rated Torque 750 N·m
Rated Fuel Consumption 20.0 g/kWh



Y12



Prime Power Ratings and Fuel Consumption

Power Rating	RPM	Fuel Consumption (g/kWh)			
		ISO 8528-3	ISO 8528-4	ISO 8528-5	ISO 8528-6
100 kW	1500	20.0	20.0	20.0	20.0
120 kW	1500	20.0	20.0	20.0	20.0
150 kW	1500	20.0	20.0	20.0	20.0
180 kW	1500	20.0	20.0	20.0	20.0

3516

Net Power 120 kW
Rated Power 140 kW
Rated RPM 1500 r/min
Rated Torque 880 N·m
Rated Fuel Consumption 20.0 g/kWh
Net Power 120 kW
Rated Power 140 kW
Rated RPM 1500 r/min
Rated Torque 880 N·m
Rated Fuel Consumption 20.0 g/kWh



Y16



Prime Power Ratings and Fuel Consumption

Power Rating	RPM	Fuel Consumption (g/kWh)			
		ISO 8528-3	ISO 8528-4	ISO 8528-5	ISO 8528-6
120 kW	1500	20.0	20.0	20.0	20.0
140 kW	1500	20.0	20.0	20.0	20.0
170 kW	1500	20.0	20.0	20.0	20.0
200 kW	1500	20.0	20.0	20.0	20.0

D379



Max. Power 120.0 kW
Max. Torque 360.0 Nm
Rated rev./min 1800
Rated fuel/lt/h 33.0
Rated oil/lt/h 10.0

Max. Power 164.0 kW
Max. Torque 490.0 Nm
Rated rev./min 1800
Rated fuel/lt/h 40.0
Rated oil/lt/h 12.0

Max. Power 180.0 kW
Max. Torque 540.0 Nm
Rated rev./min 1800
Rated fuel/lt/h 43.0
Rated oil/lt/h 13.0

Max. Power 195.0 kW
Max. Torque 590.0 Nm
Rated rev./min 1800
Rated fuel/lt/h 46.0
Rated oil/lt/h 14.0



Rated Power Settings and Fuel Consumption

Power Setting	Fuel Consumption (lt/h)				
	100%	75%	50%	25%	Idle
120.0 kW	33.0	24.0	15.0	10.0	8.0
164.0 kW	40.0	30.0	18.0	12.0	9.0
180.0 kW	43.0	32.0	19.0	13.0	9.5
195.0 kW	46.0	34.0	20.0	14.0	10.0

D398



Max. Power 140.0 kW
Max. Torque 420.0 Nm
Rated rev./min 1800
Rated fuel/lt/h 36.0
Rated oil/lt/h 11.0

Max. Power 184.0 kW
Max. Torque 550.0 Nm
Rated rev./min 1800
Rated fuel/lt/h 45.0
Rated oil/lt/h 13.0

Max. Power 200.0 kW
Max. Torque 600.0 Nm
Rated rev./min 1800
Rated fuel/lt/h 48.0
Rated oil/lt/h 14.0

Max. Power 215.0 kW
Max. Torque 650.0 Nm
Rated rev./min 1800
Rated fuel/lt/h 51.0
Rated oil/lt/h 15.0



Rated Power Settings and Fuel Consumption

Power Setting	Fuel Consumption (lt/h)				
	100%	75%	50%	25%	Idle
140.0 kW	36.0	27.0	16.0	11.0	9.0
184.0 kW	45.0	33.0	19.0	13.0	10.0
200.0 kW	48.0	35.0	20.0	14.0	10.5
215.0 kW	51.0	37.0	21.0	15.0	11.0

D399

Bore x Stroke: 410 x 230 mm
 Displacement: 10.5 L/6.4 cu ft
 Power (kW) (hp): 130/180
 Fuel Consumption: 200 g/kWh
 Weight (kg) (lb): 1700/3750

(Weights vary depending on configuration)



Y18



Prime Power Ratings and Fuel Consumption

RPM	kW	hp	Fuel Consumption (g/kWh)		
			ISO	SAE	SAE
1800	130	180	200	200	200



Cat Marine Generator Features

Low maintenance brushless excitation

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Regulation is standard. Synthetic epoxy over cast or end turn windings extends life in dirty environments.

Equipped for parallel operation without voltage loss. Includes full 60 amp transformer and protection ... eliminates windings.

Voltage and frequency regulator provides full voltage under most loading conditions, maintains close voltage control over the control load range. Series voltage on all three phases. Load regulator replaces most complex series.

Spine heater is standard ... reduces condensation in windings.

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