



OMEGA Series

OMEGA 100 and 200

Variable Speed Engines

OWT6 1022, OWT6 2022

Power output: 84–268 kW (112–359 bhp)

Variable speed range: 1100–2200 r/min

Heavy-duty turbo and intercooled variable-speed diesel engines

Suitable for:

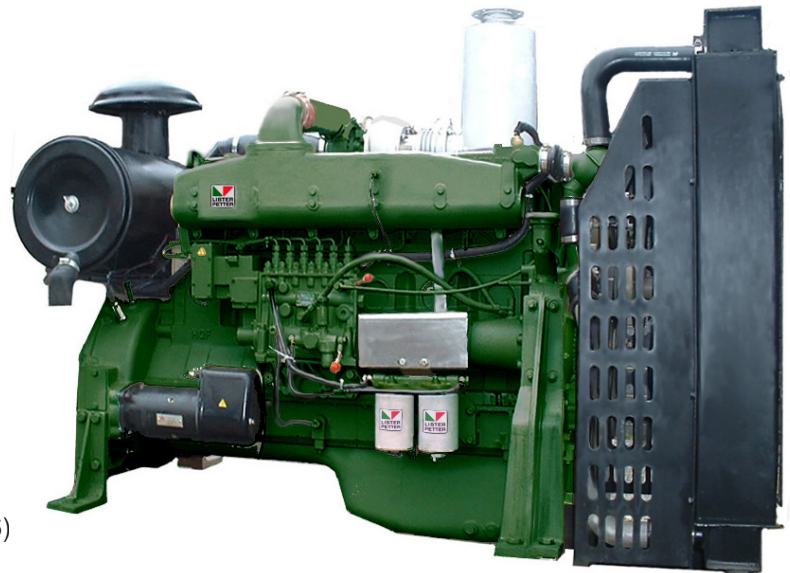
- ✓ Water pumps
- ✓ Co-generation
- ✓ Military uses

Basic Engine Characteristics

- six cylinders
- direct injection
- liquid-cooled
- diesel-fuelled
- turbocharged (OWT6)
- turbocharged and intercooled (OWTA6)

Design Features and Equipment

- designed for continuous operation in ambient temperatures up to 50 °C (122 °F)
- all speed governing
- cold-start aid
- twin lubricating-oil filters
- twin fuel filters
- heavy-duty air cleaner, 9¹/₂
- 24-Volt electric starting; starter motor power: 5.4 kW
- 24-Volt, 35-Amp, battery-charging alternator
- Bosch 'P' type high-pressure fuel injection pump
- anticlockwise rotation (looking on the flywheel end)
- SAE 14" flywheel



- SAE 1 flywheel housing
- forged steel crankshaft
- internal crankcase breather system
- engine support feet
- radiator/intercooler and guard (supplied loose)
- oil cooler
- 250-hour service intervals
- operators' handbook

Warranty

- standard: two years
- optional: five years

OMEGA Series: OMEGA 100 and 200 VS Engines Technical Data Sheet

Technical Data			
		OWT6 1022	OWTA6 2022
Type of fuel injection		Direct	Direct
Number of cylinders		6	6
Aspiration		Turbocharged	Turbocharged, intercooled
Direction of rotation, looking on the flywheel end		Anticlockwise	Anticlockwise
Nominal cylinder bore	mm	126	126
	in	4.96	4.96
Stroke	mm	130	130
	in	5.12	5.12
Total cylinder capacity	litre	9.726	9.726
	in ³	593.5	593.5
Compression ratio		15.5 : 1	15.3 : 1
Minimum speed	r/min	1000	1000
Lubricating-oil pressure (mean) with the oil at 110 °C (230 °F)	bar	3.5	3.5
	lbf in ²	51	51

Power Outputs ¹ , Torque and Fuel Consumption to ISO 3046												
r/min			1000	1100	1200	1300	1400	1500	1600	1800	2000	2200
OWT6 1022	Fuel-stop power	kWm	78	94	110	125	140	152	165	174	176	176
		bhp	105	126	148	167	188	204	221	233	236	236
	Torque	Nm	745	816	875	918	955	967	985	923	840	766
		lbf ft	546	602	645	677	704	713	727	681	620	565
	Specific fuel consumption	g/kWh	220	218	217	215	212	215	217	224	227	232
		lb/hp h	0.361	0.358	0.356	0.353	0.348	0.353	0.356	0.368	0.373	0.381
OWTA6 2022	Fuel-stop power	kWm	123	169	183	196	209	223	235	252	262	268
		bhp	165	227	245	263	280	299	315	338	351	358
	Torque	Nm	1176	1449	1471	1441	1433	1416	1409	1340	1256	1167
		lbf ft	867	1069	1085	1063	1057	1044	1039	988	926	861
	Specific fuel consumption	g/kWh	198	195	195	193	193	194	196	204	214	227
		lb/hp h	0.326	0.320	0.321	0.317	0.317	0.319	0.322	0.334	0.352	0.373

Rating Definitions to ISO 3046

1. Variable speed: fuel-stop power, continuous power (IFN)

The maximum power in kW which an engine is capable of delivering continuously at stated crankshaft speed, with the fuel limited so that the fuel stop power cannot be exceeded.

The output ratings apply only to fully run - in engines without radiator, fan or other power absorbing accessories.

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Approximate Dimensions and Weight			
<p>Length, Height and Width</p>		Model	
		OWT6	OWTA6
Dry Weight	kg	850	900
	lb	1874	1984
Length (A)	mm	1750	1950
	in	69	76.7
Height (B)	mm	1213	1320
	in	47.7	52
Width (C)	mm	850	850
	in	33.5	33.5

Distributor's Address

Lister Petter have made efforts to ensure that the information in this data sheet is accurate but reserve the right to amend specifications and information without notice and without obligation or liability.



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