



OMEGA Series

OMEGA 100 and 200 G-Build

OWT6 1015, OWT6 1018, OWT6 2015, OWT6 2018

Continuous power output: 138-235 kW (185-315 bhp)

Overload power output: 152-258 kW (204-346 bhp)

Full-load speed range: 1500 and 1800 r/min

Heavy-duty water-cooled G-Build diesel engine

Suitable for:

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

General Characteristics:

- six cylinders
- turbocharged (OMEGA 100)
- turbocharged and intercooled (OMEGA 200)
- radiator-cooled (water-cooled)
- diesel-fuelled
- continuous power outputs:
138-154 kW/185-206 bhp (OMEGA 100)
185-235 kW/268-315 bhp (OMEGA 200)
- full-load speed ranges:
1500 and 1800 r/min



Option:

- tropical cooling package for the OWT6 2015-200 designed for operation in high ambient temperatures

Special Design Features:

- designed for continuous operation in ambient temperatures up to 52 °C (122 °F)*
- electromechanical governing
- cold-start aid
- 250-hour service intervals
- pusher-type cooling fan

* Except OWT6 2015-200

OMEGA Series: OMEGA 100 and 200 G-Build Technical Data Sheet

Power Outputs ¹ to ISO 3046 ²						
	Engine Model			1500 r/min	1800 r/min	
OMEGA 100 G-Build	OWT6 1015-138	Continuous power	kWm	138		
			bhp	185		
		Overload power	kWm	152		
			bhp	204		
	OWT6 1018-154	Continuous power	kWm		154	
			bhp		206	
Overload power		kWm		169		
		bhp		226		
OMEGA 200 G-Build	OWT6 2015-185	Continuous power	kWm	185		
			bhp	248		
		Overload power	kWm	203		
			bhp	272		
	OWT6 2015-200 ³	Continuous power	kWm	200		
			bhp	268		
		Overload power	kWm	220		
			bhp	295		
	OWT6 2018-235	Continuous power	kWm			235
			bhp			315
		Overload power	kWm			258
			bhp			346

Notes

1. Power ratings are measured at the flywheel end. See rating definitions below.
2. Power ratings and fuel consumption figures apply to a fully run-in, non-derated engine without a radiator and fan fitted, and without power-absorbing accessories or transmission equipment.
3. If the OWT6 2015-200 is for use in high ambient temperatures, the optional tropical cooling package is recommended. Please ask your sales representative for more information.

Rating Definitions, to ISO 3046

Fixed speed power: continuous power (ICN)

The power in kW which the engine is capable of delivering continuously at the stated crankshaft speed, under conditions of 100 kPa barometric pressure, 30% relative humidity and 25 °C air inlet temperature, provided that the engine is overhauled and maintained in good operating condition and that fuel to BS EN 590 Class A1 or A2, and lubricating oils to the correct performance specification and viscosity classification as recommended by Lister Petter Limited, are used.

Fixed speed power: overload power (ICXN)

The maximum power in kW which the engine is capable of delivering intermittently at the stated crankshaft speed for a period not exceeding one hour in any period of twelve hours continuous running, immediately after working at the continuous power, under the conditions specified in (1) above.

De-rating

For non-standard site conditions, reference should be made to relevant BS, ISO and DIN standards.

The overload capability applies to a fully run-in engine. This is normally attained after a running period of about 50 hours .

Fuel Consumption ²				
	Engine Model		1500 r/min	1800 r/min
OMEGA 100 G-Build	OWT6 1015-138	g/kWh	220	
	OWT6 1018-154	g/kWh		225
OMEGA 200 G-Build	OWT6 2015-185	g/kWh	205	
	OWT6 2015-200 ³	g/kWh	205	
	OWT6 2018-235	g/kWh		210

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Technical Data			
		OWT6	OWTA6
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		16.5 : 1	16.5 : 1
Minimum full-load speed	r/min	1500	1500
Lubricating-oil pressure: mean, and with the oil at 110 °C (230 °F)	bar	3.5	3.5
	lbf in ²	51	51

Equipment and Features

- 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 flywheel end)
- SAE 14" flywheel
- SAE 1 flywheel housing
- forged steel crankshaft

- internal crankcase breather system
- engine support feet
- radiator and guard (OMEGA 100)*
- radiator/intercooler and guard (OMEGA 200)*
- oil cooler
- operators' handbook

Warranty

- standard: two years
- optional: five years


Conditions apply.

* Supplied separately. See also note 3.

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Approximate Dimensions and Weight				
<p>Length, Height and Width</p>	Model		OWT6	OWTA6
	Dry Weight	kg	850	880
		lb	1874	1938
	Length (A)	mm	1823	1963
		in	71.8	77.3
	Height (B)	mm	1380	1600
		in	54.3	63.0
	Width (C)	mm	855	855
		in	33.7	33.7

A comprehensive range of options allows you to select a specification that matches your requirements. Please ask your Lister Petter distributor. (See panel below left.)

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