



# OMEGA Series

# OMEGA 200

# G-Build Engine

**OWTA6 2015, OWTA6 2018**

*Continuous power output: 200 and 235 kW (268 and 315 bhp)  
Overload power output: 220 and 258 kW (295 and 346 bhp)  
Full-load fixed speeds: 1500 and 1800 r/min*

*Turbocharged and intercooled heavy-duty G-Build diesel engine*

#### **Suitable for:**

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

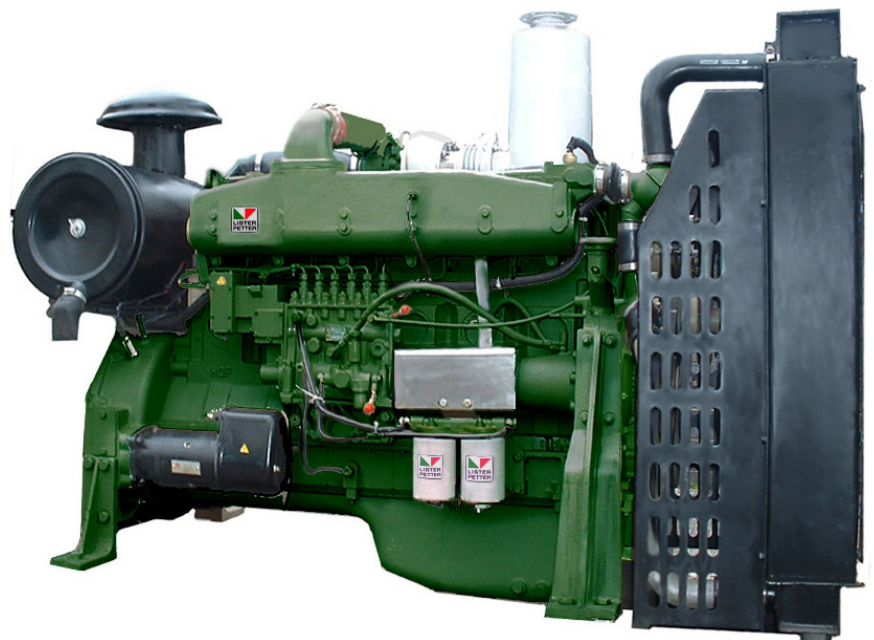
#### **General Characteristics:**

- six cylinders
- diesel fuelled
- liquid cooled
- direct injection
- turbocharged
- intercooled

#### **Special Design Features:**

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

(See overleaf for more features.)



#### **Warranty**

- standard: two years
- optional: five years

Conditions apply.

#### **Optional Items**

- extended five-year warranty

## OMEGA Series: OMEGA 200 G-Build Engine Technical Data Sheet

### Equipment and Features

- Twin lubricating-oil filters
- Twin fuel filters
- Heavy-duty cyclonic air cleaner, 9<sup>1</sup>/<sub>2</sub>“
- 24V electric starting; starter motor power: 5.4 kW
- 24V, 35-Amp, battery-charging alternator
- Bosch ‘P’ type high-pressure fuel injection pump
- SAE 1 flywheel housing, 14” flywheel
- Forged steel crankshaft
- Internal crankcase breather system
- Engine support feet
- Oil cooler
- 250-hour service intervals
- Operators’ handbook
- Radiator/intercooler and guard<sup>1</sup>
- Oil cooler
- Operators’ Handbook

| Technical Data  |                     |                           |                           |
|---|---------------------|---------------------------|---------------------------|
|   |                     | OWTA6 2015                | OWTA6 2018                |
| Number of cylinders   |                     | 6                         | 6                         |
| Type of fuel injection  |                     | Direct                    | Direct                    |
| Aspiration  |                     | Turbocharged, intercooled | 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 <sup>3</sup>     | 593.5                     | 593.5                     |
| Compression ratio   |                     | 16.5 : 1                  | 16.5 : 1                  |
| Full-load fixed speed   | r/min               | 1500 <sup>2</sup>         | 1800 <sup>2</sup>         |
| Lubricating-oil pressure: mean, and with the oil at 110 °C (230 °F) | bar                 | 3.5                       | 3.5                       |
|   | lbf in <sup>2</sup> | 51                        | 51                        |

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| Power Outputs <sup>1</sup> and Fuel Consumption to ISO 3046 <sup>2</sup> |                               |     |            |            |     |
|--|-------------------------------|-----|------------|------------|-----|
|  |                               |     | 1500 r/min | 1800 r/min |     |
| OWTA6 2015<br>OWTA6 2018   | Continuous power <sup>2</sup> | kWm | 200        | 235        |     |
|  |                               | bhp | 268        | 315        |     |
|  | Overload power <sup>2</sup>   | kWm | 220        | 258        |     |
|  |                               | bhp | 295        | 346        |     |
|  | Specific fuel consumption     |     | g/kWh      | 205        | 210 |

1. Power ratings measured at the flywheel, 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.

### Rating Definitions, to ISO 3046

#### 1. 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.

#### 2. 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.

#### 3. 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.

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| Approximate Dimensions and Weight |                        |    |      |
|-----------------------------------|------------------------|----|------|
| <p>Length, Height and Width</p>   | OWTA6 2015, OWTA6 2018 |    |      |
|                                   | Dry Weight             | kg | 880  |
|                                   |                        | lb | 1938 |
|                                   | Length (A)             | mm | 1963 |
|                                   |                        | in | 77.3 |
|                                   | Height (B)             | mm | 1600 |
|                                   |                        | in | 63.0 |
|                                   | Width (C)              | mm | 855  |
|                                   |                        | in | 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.)

**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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