Suitable for:

- work boats
- pleasure boats
- propulsion and auxiliary applications

**Basic Engine Characteristics**

- 2 or 3 cylinders
- air cooled
- direct injection
- naturally aspirated
- durable, economical and reliable
- low fuel consumption and long service periods

**Design Features and Equipment**

- integral flywheel fan air cooling
- electric or hand start (see options)
- engine-mounted air cleaner
- fuel filter/agglomerator
- fuel lift pump and steel fuel lines
- high level dipstick
- operators’ handbook

**Optional Items**

The range of options to enable your TR marine engine to be built to your exact needs includes:

- 12-volt starter motor (insulated earth return design) and 55 Amp marine alternator
- raised hand starting at gear end
- sump drain pump
- engine bearers
- range of gearboxes
- vibration isolating engine mounts
- hot air outlet duct adaptor
- flexible coupling disc
- panel with warning lights, alarms and keyswitch
- engine wiring
- Morse type fittings

**Warranty**

- standard: two years from delivery
- optional five-year limited warranty

Conditions apply.
T Series: TR Marine Engines Technical Data Sheet

### Dimensions

<table>
<thead>
<tr>
<th></th>
<th>TR2 Marine</th>
<th>TR3 Marine</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>897</td>
<td>1024</td>
</tr>
<tr>
<td>B</td>
<td>548</td>
<td>675</td>
</tr>
<tr>
<td>C</td>
<td>158</td>
<td>170</td>
</tr>
<tr>
<td>D</td>
<td>23</td>
<td>33</td>
</tr>
</tbody>
</table>

The illustrations show the raised hand start which is an optional accessory. D is the distance of gearbox output centre line below the underside of the engine mounts.

### Power Outputs

#### Power Outputs to ISO 3046

<table>
<thead>
<tr>
<th>Variable Speed</th>
<th>r/min</th>
<th>1500</th>
<th>1800</th>
<th>2000</th>
<th>2500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TR2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous</td>
<td>kW</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td></td>
<td>11.0</td>
<td>13.1</td>
<td>14.5</td>
<td>17.3</td>
</tr>
<tr>
<td>bhp</td>
<td></td>
<td>14.8</td>
<td>17.6</td>
<td>19.4</td>
<td>23.2</td>
</tr>
<tr>
<td>Intermitent</td>
<td>kW</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td></td>
<td>12.1</td>
<td>14.4</td>
<td>16.0</td>
<td>19.0</td>
</tr>
<tr>
<td>bhp</td>
<td></td>
<td>16.2</td>
<td>19.3</td>
<td>21.5</td>
<td>25.5</td>
</tr>
<tr>
<td><strong>TR3</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous</td>
<td>kW</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td></td>
<td>16.8</td>
<td>20.2</td>
<td>22.2</td>
<td>25.9</td>
</tr>
<tr>
<td>bhp</td>
<td></td>
<td>22.5</td>
<td>27.1</td>
<td>29.8</td>
<td>34.7</td>
</tr>
</tbody>
</table>

#### Torque to ISO 3046

<table>
<thead>
<tr>
<th>Variable Speed</th>
<th>r/min</th>
<th>1500</th>
<th>1800</th>
<th>2000</th>
<th>2500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TR2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermittent</td>
<td>Nm</td>
<td>77.0</td>
<td>76.4</td>
<td>76.4</td>
<td>72.6</td>
</tr>
<tr>
<td>Power</td>
<td></td>
<td>117.8</td>
<td>117.8</td>
<td>116.5</td>
<td>108.9</td>
</tr>
<tr>
<td><strong>TR3</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermittent</td>
<td>Nm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Rating Definitions, to ISO 3046

**ISO Standard Conditions**
- Barometric pressure: 100 kPa
- Relative humidity: 30%
- Ambient temperature at air inlet manifold: 25°C

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 ISO standard conditions, measured at the flywheel without power-absorbing accessories, 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 ISO standard conditions and with the provisions specified in (1) above.

3. **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, under ISO standard conditions and with the provisions specified in (1) above, with the fuel limited so that the fuel stop power cannot be exceeded.

4. **Variable speed: fuel-stop power, intermittent power (IOFN)**
   - The maximum power in kW which an 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, with the fuel limited so that the fuel stop power cannot be exceeded, immediately after running at the rating in (3) above, under ISO standard conditions and with the provisions specified in (1) above.

5. **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.

### Notes:

1. The dimensions (mm) given are for guidance only and must not be used for installation purposes.
2. Power ratings (measured at the flywheel) and fuel consumptions, apply to a fully run-in, non-derated engine without power-absorbing accessories or transmission equipment.
3. The overload capability applies to a fully run-in engine. This is normally attained after a running period of about 50 hours.
4. For fixed speed engines the powers at these speeds are the same.

### Distributor’s Address

Lister Petter Limited, Dursley, Gloucestershire
GL11 4HS England
Tel: +44 (0)1453 544141; fax: +44 (0)1453 546732
E-mail: sales@lister-petter.co.uk http://www.lister-petter.co.uk

---

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.