

Genset  
Model:

## YTP500RS & YTP500RSC (UK)

T-Series

Enclosed set



| Frequency | Phase | Power Factor | Prime Output   | Standby        |
|-----------|-------|--------------|----------------|----------------|
| 50Hz      | 3     | 0.8          | 500kVA / 400kW | 550kVA / 440kW |

### Ratings

- Prime output: This rating is applicable for supplying continuous electrical power at variable load. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.
- Standby output: This rating is applicable for supplying electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.
- Standard reference conditions: 25°C, 100m A.S.L. 30% relative humidity

### Design Features

- High quality assembly, providing stiffness and low vibration
- Powder coated steel, treated with anti corrosion paint
- Compact and easy access for service
- Wiring and connectors with protection
- All moving parts protected with guards
- Synchronised upgrade options available
- Governor type: electronic / mechanical
- Battery charger and block heater options
- BMS output signaling included

### Configuration

- 4-Stroke water-cooled diesel engine.
- Industrial / residential silencer
- Coolant recovery tank
- Single bearing, 4 pole brushless alternator
- Anti vibration mountings
- Integral fuel tank (with bunded base option)
- Fuel level gauge
- Auto start control system with electronic digital control module DSE7320
- ABB output circuit breaker.
- Emergency stop button
- High engine temperature and low oil pressure shutdown system.
- 12V / 24V starter battery with leads and isolator switch

### Acoustic canopy features

- Weather proof enclosure
- Fully lockable doors and control panel
- High quality sound absorbing material
- Lifting lugs

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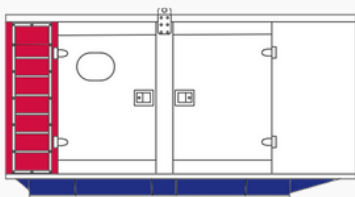
## Engine data

|                   |                            |                                |                         |
|-------------------|----------------------------|--------------------------------|-------------------------|
| Engine brand      | Perkins                    | Total coolant capacity         | 58 Litres               |
| Engine model      | 2506A-E15TAG2              | Total lube oil capacity        | 62 Litres               |
| Engine speed      | 1500 RPM                   | Cooling air flow               | 722 m <sup>3</sup> /min |
| Cylinders         | 6                          | Exhaust gas flow               | 98 m <sup>3</sup> /min  |
| Aspiration        | Turbo Charge - Intercooler | Exhaust gas temperature        | 550°C                   |
| Combustion system | Direct injection           | Fuel cons. @ 110% standby load | 111 l/hr                |
| Displacement      | 15.2 Litres                | Fuel cons. @ 100% Prime load   | 100 l/hr                |
| Governor type     | Electronic                 | Fuel cons. @ 75% Prime load    | 76 l/hr                 |
| Cooling System    | Water                      | Fuel cons. @ 50% Prime load    | 53 l/hr                 |

## Alternator data

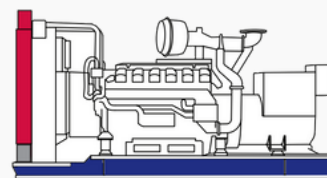
|                       |                |                           |                |
|-----------------------|----------------|---------------------------|----------------|
| Alternator brand      | Leroy Somer    | Number of wires           | 6              |
| Alternator model      | TAL047C        | Efficiency                | 93.5%          |
| Excitation            | AVR, Brushless | Voltage regulation        | ± 1%           |
| Insulation class      | H              | Total Harmonic distortion | < 1.5% no load |
| Drip proof protection | IP23           | AVR                       | Brushless      |
| Connection type       | STAR           | Power factor              | 0.8            |

## Enclosed set data



| W x L x H (mm)     | Weight  | Fuel tank  | Noise@7M |
|--------------------|---------|------------|----------|
| 1650 x 5360 x 2250 | 4846 kg | 705 Litres | 81 db    |

## Open set data



| W x L x H (mm)     | Weight  | Fuel tank  | Noise@7M |
|--------------------|---------|------------|----------|
| 1650 x 3500 x 2050 | 3781 kg | 705 Litres | N/A      |

\*\* The images are for illustration purposes only.

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