

# PT12.5 - PT14S (A)



| Ratings @ 0.8 PF            |                               | Prime Rating                | Stand-by Rating            |
|-----------------------------|-------------------------------|-----------------------------|----------------------------|
| <b>Voltage*<sup>1</sup></b> | <b>Frequency*<sup>2</sup></b> | <b>PT 12.5*<sup>3</sup></b> | <b>PT 14S*<sup>4</sup></b> |
| 230/400 V                   | 50 Hz                         | 12.5 KVA                    | 13.6 KVA                   |
| -                           | -                             | -                           | -                          |

The above ratings represent the generating set capability guaranteed within  $\pm 3\%$  at the reference conditions equivalent to those specified in ISO 8528/1.



## Notes

1. The applicable voltage range is 380V to 415V for 50Hz. For other voltage consult factory.

2. This generating set is of fixed speed of 1500rpm.

3. PT12.5 is the prime power rating of the generating set, where a variable load and unlimited hours usage are applied on the generating set with an average load factor of 80% of the prime rating over each 24 hour period. Noting that a 10% overload is available for 1 hour in every 12 hours operation.

4. PT14S is the standby power rating of the generating set, where a variable load limited to an annual usage up to 500 hours is applied, with 300 hours of which may be continuous running. Noting that no overload is permitted.

## Technical Data

|                                     |                             |          |
|-------------------------------------|-----------------------------|----------|
| <b>Engine model</b>                 | <b>Perkins 403A-15G1</b>    |          |
| <b>Cylinders</b>                    | 3 - vertical in-line        |          |
| <b>Aspiration</b>                   | Naturally aspirated         |          |
| <b>Combustion</b>                   | Indirect injection          |          |
| <b>Cooling System</b>               | Water cooled                |          |
| <b>Displacement</b>                 | 1.496 liters                |          |
| <b>Oil consumption</b>              | 0.1 % of fuel consumption   |          |
| <b>Lube oil capacity</b>            | 6.0 liters                  |          |
| <b>Coolant capacity</b>             | 6.0 liters                  |          |
| <b>Governor</b>                     | Mechanical                  |          |
| <b>Speed</b>                        | 1500 rpm                    | 1800 rpm |
| <b>Fuel Consumption @ 100% Load</b> | 3.6 L/H                     | -        |
| <b>Fuel Consumption @ 75% Load</b>  | 2.8 L/H                     | -        |
| <b>Fuel Consumption @ 50% Load</b>  | 2.0 L/H                     | -        |
| <b>Radiator Cooling Air Flow</b>    | 36.6 m <sup>3</sup> /min    | -        |
| <b>Max exhaust gas flow</b>         | 2.9 m <sup>3</sup> /min     | -        |
| <b>Emissions regulations</b>        | For unregulated territories |          |

The above performance data are valid as per the following specs:

- Diesel Fuel is according to BS2869 Class A2 or equivalent.
- Lubricating oil is according to API CH4 (15W/40).
- The coolant should be 50% antifreeze and 50% distilled water.

## Certifications



- The complete Generating Set is type-tested according to ISO 8528-8 Standard.



- The control panel is certified by an ISO 17025 accredited laboratory to have IP55 according to IEC 60355



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## Dimensions

|               |         |
|---------------|---------|
| <b>Length</b> | 1500 mm |
| <b>Width</b>  | 610 mm  |
| <b>Height</b> | 980 mm  |
| <b>Weight</b> | 395 Kg  |

## Alternator model

## Leroy Somer TAL040C

|                                 |                        |                         |
|---------------------------------|------------------------|-------------------------|
| <b>Regulation</b>               | $\pm 1\%$              |                         |
| <b>International protection</b> | IP23                   |                         |
| <b>Insulation class</b>         | H                      |                         |
| <b>Terminals</b>                | 6                      |                         |
| <b>Frequency</b>                | 50 Hz                  | 60 Hz                   |
| <b>Coolant Air flow</b>         | 0.06 m <sup>3</sup> /s | 0.072 m <sup>3</sup> /s |