

# PT100 - PT110S



Ratings @ 0.8 PF		Prime Rating	Stand-by Rating
<b>Voltage*<sup>1</sup></b>	<b>Frequency*<sup>2</sup></b>	<b>PT 100*<sup>3</sup></b>	<b>PT 110S*<sup>4</sup></b>
230/400 V	50 Hz	100 KVA	110 KVA
277/480 V	60 Hz	115 KVA	126 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. and 380V to 480V for 60Hz applications. For other voltage consult factory.

2. This generating set is of switchable speed of 1500rpm or 1800rpm.

3. PT100 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. PT110S 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.

## Certifications



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



ISO 17025 ACCREDITED LABORATORY

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



Quality ISO 9001 SAI GLOBAL

## Dimensions

<b>Length</b>	2050 mm
<b>Width</b>	770 mm
<b>Height</b>	1260 mm
<b>Weight</b>	1150 Kg

## Technical Data

### Engine model

**Perkins 1104C-44TAG2**

### Cylinders

4 - vertical in-line

### Aspiration

Turbocharged, air to air charge cooled

### Combustion

Direct injection

### Cooling System

Water cooled

### Displacement

4.4 liters

### Oil consumption

0.15 % of fuel consumption

### Lube oil capacity

8 liters

### Coolant capacity

12.6 liters

### Governor

Electronic

### Speed

1500 rpm

1800 rpm

### Fuel Consumption @ 100% Load

22.6 L/H

26.9 L/H

### Fuel Consumption @ 75% Load

17.1 L/H

20.2 L/H

### Fuel Consumption @ 50% Load

11.2 L/H

14.1 L/H

### Radiator Cooling Air Flow

165.6 m<sup>3</sup>/min

225.6 m<sup>3</sup>/min

### Max exhaust gas flow

16.3 m<sup>3</sup>/min

20.4 m<sup>3</sup>/min

### Emissions regulations

EU2007 (EU97/68 EC Stage II)

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.

### Alternator model

**Leroy Somer TAL044D**

### Regulation

$\pm 1\%$

### International protection

IP23

### Insulation class

H

### Terminals

6

### Frequency

50 Hz

60 Hz

### Coolant Air flow

0.25 m<sup>3</sup>/s

0.30 m<sup>3</sup>/s