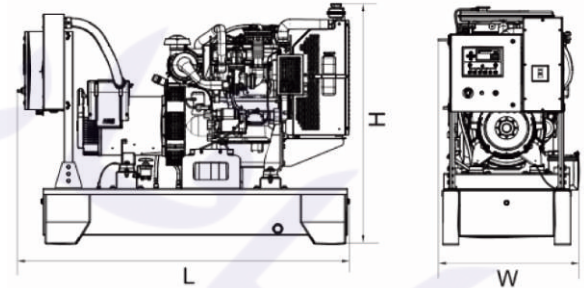


Gensets Small Range



PT20 - PT22S

Ratings @ 0.8 PF		Prime Rating	Stand-by Rating
Voltage* ¹	Frequency* ²	PT 20* ³	PT 22S* ⁴
230/400 V	50 Hz	20 KVA	21.5 KVA
-	-	-	-



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. PT20 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. PT22S 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.



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



Dimensions

Length	1500 mm
Width	610 mm
Height	1000 mm
Weight	485 Kg

Technical Data

Engine model

Cylinders

Aspiration

Combustion

Cooling System

Displacement

Oil consumption

Lube oil capacity

Coolant capacity

Governor

Speed

Fuel Consumption @ 100% Load

Fuel Consumption @ 75% Load

Fuel Consumption @ 50% Load

Radiator Cooling Air Flow

Max exhaust gas flow

Emissions regulations

Perkins 404A-22G1

4 - vertical in-line

Naturally aspirated

Indirect injection

Water cooled

2.216 liters

0.1 % of fuel consumption

10.6 liters

7.0 liters

Mechanical

1500 rpm 1800 rpm

5.3 L/H

4.0 L/H

2.9 L/H

40.2 m3/min

3.94 m3/min

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.

Alternator model

Leroy Somer TAL040F

Regulation

± 1 %

International protection

IP23

Insulation class

H

Terminals

6

Frequency

50 Hz

60 Hz

Coolant Air flow

0.06 m3/s

0.072 m3/s

PLENUM Sound Proof Canopy

Characteristics:

1. Body and components made of Galvanized Steel sheets of highest standards painted with highly anti-corrosive acrylic gloss.
2. Black zinc die-cast locks and hinges.
3. Easy access for the radiator and the control panel through the outlet and inlet attenuators.
4. Lube Oil pipe can be reached externally for easy drainage.
5. Control panel viewing window in the inlet attenuator
6. Lifting points on the base frame.
7. Exhaust silencing system in the interior of the enclosure.
8. Fuel filling and battery are secured through lockable doors.
9. Large doors for easy maintenance access.
10. Emergency stop push button mounted on the exterior of the enclosure (Optional)

Sound Pressure Levels (dBA)

Plenum Sound Proof Canopy (PL)		Sound Pressure Levels (dBA)											
		50 Hz						60 Hz					
		1 m		3 m		7 m		1 m		3 m		7 m	
Generating Set	Powertech	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%
Engine model	KVA	Load	Load	Load	Load	Load	Load	Load	Load	Load	Load	Load	Load
403A-11G	9	69.7	71	66.7	68	61.7	63	71.4	72.7	68.4	69.7	63.4	64.7
403A-15G	13	69.7	71	66.7	68	61.7	63	71.4	72.7	68.4	69.7	63.4	64.7
404A-22G	20	69.7	71	66.7	68	61.7	63	71.4	72.7	68.4	69.7	63.4	64.7
1103A-33G	30	71.9	73.4	68.4	69.9	63.4	64.9	73.8	75.3	70.3	71.8	65.3	66.8
1103A-33TG1	45	70.5	72	67	68.5	62	63.5	72.4	73.9	68.9	70.4	63.9	65.4
1103A-33TG2	60	70.5	72	67	68.5	62	63.5	72.4	73.9	68.9	70.4	63.9	65.4
1104A-44TG2	80	71.7	73.2	68.2	69.7	63.2	64.4	73.5	75	70	71.5	65	66.2
1104C-44TAG2	100	73.5	75	70	71.5	65	66.2	76	77.5	72.5	74	67.5	68.7
1106A-70TG1	135	74.7	76.2	71.2	72.7	66.2	67.4	77.2	78.7	73.7	75.2	68.7	69.9
1106A-70TAG2	150	74.7	76.2	71.2	72.7	66.2	67.4	77.2	78.7	73.7	75.2	68.7	69.9
1106A-70TAG3	180	76.9	79.6	73.4	75.5	68.4	70.8	79.8	82.5	76.3	78.4	71.3	73.7
1106A-70TAG4	200	76.9	79.6	73.4	75.5	68.4	70.8	79.8	82.5	76.3	78.4	71.3	73.7
1506A-E88TAG3	250	76.9	79.6	73.4	75.5	68.4	70.8	79.8	82.5	76.3	78.4	71.3	73.7

