

PT410 - PT450S



Ratings @ 0.8 PF		Prime Rating	Stand-by Rating
Voltage* ¹	Frequency* ²	PT 410* ³	PT 450S* ⁴
230/400 V	50 Hz	410 KVA	450 KVA
277/480 V	60 Hz	411 KVA	448 KVA

The above ratings represent the generating set capability guaranteed within ±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 applications and 380V to 480V for 60Hz applications. For other voltage consult factory.

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

3. PT410 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. PT450S 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



Quality ISO 9001 SAI GLOBAL

Dimensions

Length	3420 mm
Width	1120 mm
Height	1940 mm
Weight	3080 Kg

Technical Data

Engine model

Perkins 2206A-E13TAG3

Cylinders	6 - vertical in-line	
Aspiration	Turbocharged & A/A charge cooled	
Combustion	Direct injection	
Cooling System	Water cooled	
Displacement	12.5 liters	
Oil consumption	0.1 % of fuel consumption	
Lube oil capacity	40 liters	
Coolant capacity	51.4 liters	
Governor	Electronic	
Speed	1500 rpm	1800 rpm
Fuel Consumption @ 100% Load	81 L/H	81 L/H
Fuel Consumption @ 75% Load	62 L/H	62 L/H
Fuel Consumption @ 50% Load	42 L/H	43 L/H
Radiator Cooling Air Flow	654 m3/min	788 m3/min
Max exhaust gas flow	64.8 m3/min	73.5 m3/min
Emissions regulations	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 CI4 (15W/40).
- The coolant should be 50% antifreeze and 50% distilled water.

Alternator model

Leroy Somer TAL 047A

Regulation	± 0.5 %	
International protection	IP23	
Insulation class	H	
Terminals	6 or 12	
Frequency	50 Hz	60 Hz
Coolant Air flow	0.9 m3/s	1.1 m3/s