

DIESEL GENSET MODEL SGP 1250 PR



 Rating	Voltage	Frequency	Speed
 1250 kVA 1000 kW	415 Volts	50 Hz	1500 RPM

Optional equipment and finishing shown. Standard may vary.

PRODUCT HIGHLIGHTS

▶ Engine

- Fast load response
- Stable frequency
- Low vibrations and structure borne noise level
- Competitive fuel and lube oil consumption
- High power to weight ratio
- Proven low life cycle cost

► Alternator

- Brushless type, screen protected, self-excited alternator complying to IS 4722/IEC 60034 - 1
- Excellent motor start capability
- Excellent alternator efficiency across the load range
- Compact design with sealed bearings for longer life and lower maintenance
- Optimised engine compatibility

D. G. Package

- Highly optimised and efficient package design
- Excellent performance under most demanding environmental conditions
- Near zero down time for continuous power supply
- Sturdy base frame made from folded sheet metal for increased strength
- Efficient anti-vibration mounts
- Stringent shop floor testing to ensure class leading, hassle-free performance
- Testing carried out using state-of-the-art PLC based, resistive load bank

► Product Support

- Seamless 24 x 7Service support with toll free number 1800 3000 7666
- Best in class product support with PAN India Presence
- Highly Energetic team with immense experience in troubleshooting.

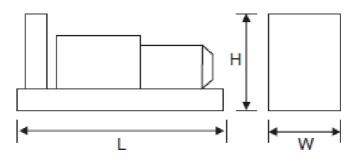


APPLICATION DATA

► Engine		► Alternator	
Engine Make & Model	Perkins-4012- 46TAG0A	Make	Leroy Somer
		Гио на о	LCAEO 244
		Power Factor	0.8
Base Frame	SGPL	Power Factor No. of Phase Frequency Rated Voltage	3
Frequency	50 Hz	Frequency	50 HZ
Engine Speed	1500 RPM 990 Liters	Rated Voltage	415V ±5%
Fuel Tank Capacity	990 Liters	Voltage Regulation	±0.5%
Fuel Tank Capacity Rated Current	1737 Amps	Excitation System Sel	f-Excited Self-Regulated
		AVR Type	P 450
No. of Cylinders Type of Construction Displacement	12	► Induction System	
Displacement	45 84 I	Air Filter Type	Dry type
			20-40 mbar
Bore / Stroke Gross Engine Power Output	1497 RHP		20-40 IIIDai
Pated Spood	1500 DDM	Lubrication System	
Rated Speed Aspiration	Turbocharged	Lubi leación system	
Governor Type & Class	Class A1	Recommended Lube Oil	15W40 API-CI4
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► Cooling System		Lube Oil Filter Type	
y cooming bystem		Labe Oil Filter Type	Paper element
Method of Cooling	Radiator	Lube Oil System Capacity (With	n Filter): 177 L
Qty of Coolant (Engine + Radiator)	210 L		
Radiator Fan Power	/ 4 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Radiator Cooling Airflow	68651 CFM	► Exhaust System	
		Silencer Type	Resdential
► Fuel System		Number of Silencers	1 No.
,		Maximum Allowable Back Press	
Make/Type of Injection System	Direct injection	Exhaust Gas Temperature	425 Deg C
Recommended Fuel	HSD		
Fuel Filter Type Spir	n On Paper Element		
Specific Fuel Consumption : L/hr			
75% Load 10	0% Load		
197.77 2	53.56		
*Note: Specific gravity of fuel consid-	ered - 850		
gms/Litre with +3% tolerance			



Dimensions & Weights



Drawing above for reference purpose only. Dimensions may vary with other voltages. Not to be used for installation purpose.

Length = L	mm	5200	Wet Weight (Approx.) kg	13000
Width = w	mm	2198		
Height = H	mm	2425		

Acoustic Enclosure Dimensions

Length = L	mm	9000	Wet Weight (Approx.) kg	18000
Width = w	mm	3000		
Height = H	mm	4740		

Output Ratings

Generating Set Rating @ 415V - 50 Hz | 1250 KVA | 1000 kW

Note: Ratings at 0.8 power factor.

Definitions: Prime Rating

This rating is applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power for unlimited number of hours with an average load factor of 80%

Fuel Consumption Data:

Fuel consumption data with diesel fuel of specific gravity 0.85 and conforming to IS: 1460

Standard Features

Perkins Range

- Sterling provides a range of Perkins engine powered generating sets which are recognised for reliability.
- · Global technology available in India.
- · Most energy efficient D. G. set in its own rating.
- Microprocessor based control panels.
- · Wider maintenance intervals.
- Pre tested at factory with PLC test bench.
- Well experienced and trained engineers for 24 x 7 after sales support.
- Designed to meet the latest environmental norms and approved by CPCB nodal agency.



Standard Control Panel

SG 2010:	Monitoring	
Standard Supply	Generator Breaker Status	
	Generator Healthy Status	
Operating Features	Mains Healthy Status	
Microprocessor based digital controller	Mains Breaker Status	
Accurate LCD display	Engino	
Local Start/Stop	Engine High Water Temperature	
Auto Main Fail Detection & Mains Monitoring	Low Coolant Level	
Remote Start/Stop	Engine Overspeed	
Generator breaker control	Low oil pressure	
Easily Accessible through Fascia	Low of pressure	
Engine Protection/Faults Moni through CAN	Low I det Levet	
Flexibility for Selecting Manual, AMF Operations	Electrical	
Metering	Generator under Voltage (ANSI-27)	
Engine Parameters:	Generator over Voltage (ANSI-59)	
Engine Speed	Generator under Frequency (ANSI-81L)	
Lube Oil pressure	Generator over Frequency (ANSI-81H)	
Coolant temperature	Generator Over Current (ANSI-51)	
Engine Running Hour	Generator kW Overload (ANSI-32P)	
Engine Battery voltage	Control Supply under Voltage	
Running status	Control Supply over Voltage	
Fuel level in Percentage		
Event Log with date and time	Breaker/Contactor	
	DG Breaker No	
Electrical Parameter Generator	Mains Breaker No	
Generator Voltage (Ph-Ph)	Communication	
Generator Voltage (Ph-N)	RS485-Modbus Communication Available for BMS/PLC	
Current -(R,Y,B) Generator	No 103 Modela Communication Available 101 BM3/1 EC	
apparent power (kVA)	Panel location	
Generator active power(kW)	Right side of the canopy viewing from Alternator end.	
Generator reactive power(kVAr)	and the same same same same same same same sam	
Generator Power Factor		
Generator Frequency (Hz)		
Cumulative Power Consumption in kWh		
Cumulative Power Consumption in kVAh		
Cumulative Power Consumption in kVArh		
Mains Voltage (Ph-Ph)		

General Information

Documentation

A full set of operation and maintenance manuals and circuit wiring diagrams.

Warranty

Please refer warranty policy.

