

DIESEL GENSET MODEL SGN 250 PR



Optional equipment and finishing shown. Standard may vary.

Data Sheet

Rating	Voltage	Frequency	Speed
250 kVA	415 Volts	50 Hz	1500 RPM
200 kW	415 VOILS	30 112	1300 KPM



PRODUCT HIGHLIGHTS

▶ Engine

- CPCB II compliant
- 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
- Compact design with sealed bearings for longer life and lower maintenance
- Optimised engine compatibility

D. G. Package

- Highly optimized 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
- Highly Energetic team with immense experience in troubleshooting.

APPLICATION DATA

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Engine

Engine Make & Model	MHEPL
	mPower 63105 G
Base Frame	SGPL
Frequency	50 Hz
Engine Speed	1500 RPM
Fuel Tank Capacity	485 Litres
Rated Current	347 Amps

No. of Cylinders	6
Type of Construction	Inline
Displacement	9.3 L
Bore / Stroke	116.6X146.1 mm
Gross Engine Power Output	310 BHP
Rated Speed	1500 RPM
Aspiration	Turbodcharged
Governor Type & Class	Electronics /A0

► Cooling System

Method of Cooling	Radiator
Qty of Coolant (Engine +	54 L
Radiator)	
Radiator Fan Power	11 kW
Radiator Cooling Airflow	13350 CFM

► Fuel System

Make/Type of Injection	Bosch/CRDI
System	
Recommended Fuel	HSD
Fuel Filter Type	Spin on type with
	synthetic element
Fuel Consumption: L/hr	
75% Load	100% Load
41.16	53.01

*Note: Specific gravity of fuel considered - 850 gms/Litre with +3% tolerance

, , , , , , , , , , , , , , , , , , , ,	generators
Make	Crompton Greaves
Frame	G1R315SE
Power Factor	0.8
No. of Phase	3
Frequency	50 Hz
Rated Voltage	415V
Voltage Regulation	±1%
Excitation System	
	Brushless
AVR Type	AVR-UVR-7

sterling[™]

► Induction System

► Alternator

Air Filter Type	Dry type
Air Intake Restirction	37 mbar

► Lubrication System

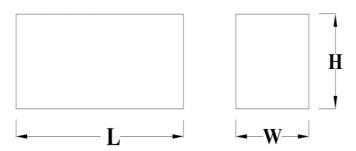
15W40 CI4+
0.1% of FC
Spin on cartridge type
with paper element
35 L

► Exhaust System

Silencer Type	Critical-grade
Number of Silencers	1
Maximum Allowable Back	110 mbar
Pressure	
Eehaust Gas Temperature	473 Deg C

Dimensions & Weights





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

Acoustic Enclosure Dimensions (Approx.)

Length = L	mm	5000	Wet Weight (Approx.) kg	4900
Width = W	mm	1800		
Height = H	mm	2940		

Output Ratings

Generating Set Rating @ 415V - 50 Hz | 250 KVA | 200 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

► The MHEPL Range

- Sterling provides a range of MHEPL engine powered generating sets which are recognized 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





30 2000.	generators
Standard Supply	Protection
Operating Features	Engine
Microprocessor based digital controller	High Water Temperature
Accurate LCD display	Low oil pressure
Local Start/Stop	Low Fuel Level
Remote Start/Stop	
Generator breaker control	Electrical
Easily Accessible through Fascia	Generator under Voltage (ANSI-27)
Flexibility for selecting Manual, Auto operations	Generator over Voltage (ANSI-59)
Easily Convertible AMF by giving Mains Fail Signal	Generator under Frequency (ANSI-81L)
	Generator over Frequency (ANSI-81H)
Metering	Generator over Current (ANSI-51)
Engine Parameters:	Generator kW Overload (ANSI-32P)
Engine Speed	Control Supply under Voltage
Lube Oil pressure	Control Supply over Voltage
Coolant temperature	
Engine Running Hour	Panel Location
Engine Battery voltage	Rear of the canopy viewing from alternator non drive
Running status	end
Fuel level in Percentage	
Event Log with date and time	
Electrical Parameter	
Generator Voltage (Ph-Ph)	
Generator Voltage (Ph-N)	
Generator Current -(R,Y,B)	
Generator apparent power (kVA)	
Generator active power(kW)	
Generator reactive power (kVAr)	
Generator Power Factor	
Generator Frequency (Hz)	
Cumulative Power Consumption in kWh	
Cumulative Power Consumption in kVAh	
Cumulative Power Consumption in kVArh	
Control Supply Voltage	
Conoral Information	

General Information

Documentation

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

Warranty

Please refer warranty policy.

