

SGP 750 PR



Rating	Voltage	Frequency	Speed
750 kVA	415 Volts	50 Hz	1500 RPM
600 kW			

Tentative Data Sheet

Optional equipment and finishing shown. Standard may vary.

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 M S Plate 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

gms/Litre with +3% tolerance

► Engine		► Alternator	
Engine Make & Model	Perkins	Make	Crompton Greaves
	4006D-E23TAG2	Frame	C4D400CC
	SGPL	Power Factor	
Farmer and a second	50 Hz	No. of Phase	3
Engine Speed	1500 RPM	Frequency	50 Hz
Fuel Tank Capacity	990 Litres	Voltage	415V
	1043 Amps	Voltage Regulation	±0.5%
		Excitation System	Brushless
		AVR Type	
No. of Cylinders	6		
Type of Construction		► Induction System	
Displacement	22.92 L	Air Filter Type	Dry type
Bore / Stroke	160X190 mm	Air Intake Restriction	25-37 mbar
Gross Engine Power Output	668 kW		
Rated Speed	1500 RPM		
	Turbocharged	► Lubrication System	
Governor Type & Class	ISO 8525-5 Class G2	Recommended Lube Oil	15W40 API-CI4
		Lube Oil Consumption	0.1% of FC
		Lube Oil Filter Type Full	Paper element
Cooling System		Flow	
Method of Cooling	Radiator	Lube Oil System Capacity	115 L
Qty of Coolant (Engine +	120 L	(With Filter)	
Radiator)			
Radiator Fan Power	30 kW		
Radiator Cooling Airflow	27545 CFM	► Exhaust System	
		Silencer Type	Residential
		Number of Silencers	2 Nos
► Fuel System		Maximum Allowable Back	100 mbar
Make/Type of Injection	Electronic	Pressure	
System		Exhust Gas Temperature	480 Deg C
Pacammandad Fual	HSD		
Fuel Filter Type			
Fuel Consumption: L/hr			
75% Load	100% Load		
126.91	160.78		
*Note: Specific gravity of fu	el considered - 850		
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Dimensions & Weights



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

Acoustic Enclosure Dimensions

Length = L	mm	7200	Wet Weight (Approx.) kg	11000
Width = W	mm	2300		
Height = H	mm	3106		

Output Ratings

Generating Set Rating @ 415V - 50 Hz | 750 KVA | 600 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 Perkins Range

- Sterling provides a range of Perkins 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	Right side of the canopy viewing from Alternator end.
Running status	
Fuel level in Percentage	
Event Log with date and time	
Electrical Parameter	
Generator Voltage (Ph-Ph)	
Caracas tara Valtaria (Dla NI)	
Concretor Current (P.V.P.)	
Congrator apparent power (k)/A)	
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	

General Information

Documentation

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

Warranty

Please refer warranty policy.

