



positively wired

(A Shapoorji Pallonji Company)

Diesel Genset Model SGP 750 PR

Output Ratings	Generating Set Rating @	415V - 50 Hz		Ratings & Performance Data	Engine Make & Model	Perkins - 4006D-23TAG2
		750 KVA	600 kW		Alternator Make & Model	Leroy Somer LSA 49.1 M75
	Note: Ratings at 0.8 power factor.				Base Frame	SGPL
	Definitions:				Frequency	50 Hz
	Prime Rating				Engine Speed	1500 RPM
	This rating is applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. Average load factor should not exceed 70% of the prime rated power.				Fuel Tank Capacity	990 Liters
	Fuel Consumption Data				Rated Current	1045 Amps.
	Fuel consumption data with diesel fuel with specific gravity of 0.85 and conforming to IS: 1460				Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS 5000. Accessories shown many not be part of standard Generating Set.	

The Perkins Range	
Standard Features	<ul style="list-style-type: none"> • Sterling provides a range of Perkins engine powered generating sets which are globally recognised for reliability. • Global technology available in India. • Most energy efficient D. G. set in its own rating • Micro processor based control system. • 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.

Layout			Physica Data		Length = L	mm	7200
					Width = w	mm	2300
					Height = H	mm	3296
					Dry Weight	-	
					Wet Weight	kg	8897

Engine Technical Data	No. of Cylinders	6 / In line	Induction System	Air Filter Type:	Paper element type
	Cycle	4 Stroke		Combustion Air Flow:	59 cum/min
	Displacement	22.92 L			
	Bore / Stroke	160X190mm			
	Gross Engine Power Output	895 BHP		Air Intake Restriction	1.27 - 3.8 kPa
	Aspiration	Turbocharged Aftercooled			
	Governer Type	Electronic			
Governer Class	ISO 3046-4 Class A1				

Cooling System	Cooling System Capacity: L	85	Lubrication System	Oil Filter Type:	paper element
	Water Pump Type	Engine driven		Total Oil Capacity: L	115
	Radiator Fan Power	30 kW		Oil Type:	SAE 15W40, API-CI4
	Radiator Cooling Airflow	1560 m ³ /min		Lub. Oil Consumption:	0.1%
	Cooling Method	Heat Exchanger			

Fuel System	Filtration Capacity	Spin on paper element		Exhaust System	Silencer Type	Critical-grade
	Recommended Fuel	HSD			No. of Silencer	1 No. (Dual)
	Specific Fuel Consumption : L/hr				Maximum Allowable Back Pressure	3 kPa
		75% Load	100% Load			
		124.96	169.83		Exhaust Gas Temperature	175 cum/min
	*Note: Specific gravity of fuel considered - 850 gms/Litre with +3% tolerance				Exhaust Gas Temperature	510 Deg C

Alternator Physical Data	Make	Leroy Somer	Alternator Operating Data	Overspeed	1800 RPM
	Frame	LSA 49.1M75		Voltage Reguation:	±0.5%
	No of Phase	3		Exitation System	Self Excited and Self Regulated Brushless
	Ingress Protection Rating	IP23		AVR Model	R-450
	Insulation Class	H			



Controller Standard Supply	SG 2010	Controller Standard Supply	
	Standard Supply		Metering
	Operating Features		Engine Parameters
	Microprocessor based digital Controller		Engine Speed
	Accurate LCD display		Lube Oil pressure
	Auto Main Fail Detection & Mains Monitoring		Coolant temperature
	Local Stat/stop		Charge Air temperature
	Remote start/stop		Coolant Pressure
	Mains breaker Control		Fuel Rate of Flow
	Generator breaker control		Engine Faults
	Easily Accessible through Fascia		Engine Operation Hours
	Engine Protection/Faults Monitoring through CAN		Engine battery Voltage
	Flexibility for selecting Manual, Auto (AMF) operations		Running status
	Protection		Engine Faults with Running hour
	Engine Protection		Event Log with date and time
	High Water Temperature		Alarm Log with date and time
	Low oil pressure		Electrical Parameters
	Engine Overspeed		Generator Voltage (Ph-Ph)
	Low Coolant Level		Generator Voltage (Ph-N)
	Low Fuel Level		Generator Current -(R,Y,B)
	Electrical Protection		Generator apparent power (kVA)
	Generator Under Voltage(ANSI-27)		Generator active power(kW)
	Generator Over Voltage(ANSI-59)		Generator reactive power (kVAr)
	Generator Under Frequency (ANSI-81L)		Generator Power Factor
	Generator Over Frequency (ANSI-81H)		Generator Frequency (Hz)
	Generator Over Current (ANSI-51)		Cumulative Power Consumption in kWh
	Generator kW Overload (ANSI-32P)		Cumulative Power Consumption in kVAh
	Generator Reverse Power(ANSI-32R)		Cumulative Power Consumption in kVArh
	Control Supply Under Voltage		Mains Voltage(Ph-Ph)
	Control Supply Over Voltage		Mains Voltage(Ph-N)
	Monitoring		Mains Frequency(Hz)
	Generator breaker Status		Control Supply Voltage
Generator Healthy Status	Communication		
Mains Healthy Status	RS485-Modbus Communication available for BMS/PLC		
Mains breaker status	Panel location		
	Right side of the canopy viewing from Alternator end.		

General Information	Documentation
	A full set of operation and maintenance manuals and circuit wiring diagrams.
	Generating Set Standards
	The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, Sterling Generators is a fully accredited ISO 9001:2008, DIN EN ISO 14001:2009, and BS OHSAS 18001:2007 company.