



SOMMERS

SMG DP 500

MODEL:SMGDP 500

Power rating @ 60Hz		Power rating @ 50Hz	
Prime	500 KW	Prime	400 KW
Standby	550 KW	Standby	440 KW

Generator set comprising engine and alternator assembly mounted on fabricated steel profile baseframe. Baseframe is painted with a phosphate primer and top coat.

The alternator is directly coupled to the engine and the rotor is fixed to the flywheel using steel discs for flexibility. This assembly guarantees perfect alignment and the absence of vibration.

The engine is fixed to the baseframe using anti-vibration pads.

ENGINE: PERKINS (Four- stroke diesel engine with direct injection)

Model	2806TAG2	Aspiration	Turbo charged
No. of cylinders	6	Cooling	Water cooled
Engine capacity	15800	Speed 60 / 50Hz	1800 / 1500 rpm
Bore	140	Standby Hp @ 60Hz	826 Hp
Stroke	171		
Compression Ratio	15.9:1		

Standard Single Wall Sub-base Tank: 964 Litre

Fuel Consumption

Load	l / hr	
	60Hz	50Hz
25% load	0	0
50% load	70	57
75% load	95	81
100% load	127.0	108

Cooling System

Closed circuit water cooled with expansion tank included in the radiator. Tropical radiator and fan with guard. Suitable for working at ambient temperatures of up to 53°C.

Air flow fan 60 / 50 Hz	624/540 m3min
Cooling system capacity	50L

Lubrication system

Forced lubrication with gear type pump. Oil filter.

Oil sump capacity	68L
Oil consumption	.1% Fuel Consumption

SMG DP 500

Air intake system

Turbo charged with dry air filter.

Combustion air flow 52.78 / 38.1m³min

Injection system

MEUI Injection pump with electronic governor.

Electrical system

24 V starting system. Axial starter motor. 2x12 V 120 Ah battery 70 Amp Battery charging alternator. Oil pressure, and engine temperature sensors

Protection System

Automatic engine shutdown with LED indication for low oil pressure, high engine temperature, battery charge failure, overcrank, & overspeed

Exhaust System

Consists of residential exhaust silencer with 10dB(A) noise reduction, stainless steel flexible hose and brackets. Optionally, a critical or hospital grade silencer can be supplied.

Alternator

Stamford / Newage Brushless Alternator. Self regulated via SX440 AVR keeping voltage within 1.5%. Windings are Class H insulated, All wound components are impregnated with polyester resin for resistance to acids and oils. Protection grade IP 22.

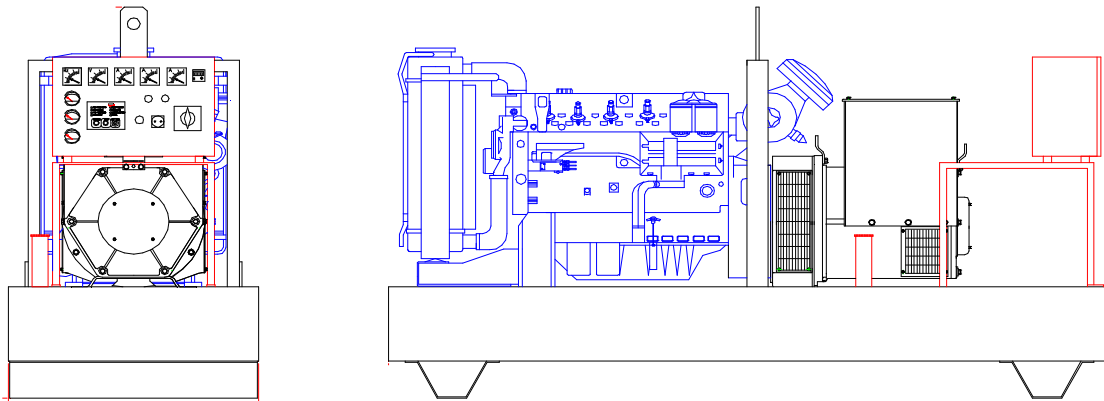
ELECTRICAL SYSTEM

Control Panel GPM-2

3pos. Switch (Auto/Off/Manual)	■	Three-phase terminals	■
Ammeter	1	Engine temperature gauge	■
Frequency meter	1	Fuel level gauge	■
Voltmeter	1	Battery charge meter	■
Battery voltmeter	□	Oil pressure gauge	■
Mainline Breaker	■	ON lamp	■
3-phase monitoring card	□	Heater lamp	□
Hours run meter	■	Emergency stop button	□

Breaker: 347 / 600V,3Ph = 675Amp

Dimensions



	SILENT	OPEN		
Length (L)	216	150	Outlet Air Louvre	n/a
Width (W)	61	48	Inlet Air Louvre	n/a
Height (H)	95	92		
Weight (lb)	12665	9425		

NOTE:Not for Construction use
Consult factory.