



SOMMERS

SMG DP 140

MODEL:SMGDP 140

Power rating @ 60Hz		Power rating @ 50Hz	
Prime	121 KW	Prime	109 kW
Standby	132 KW	Standby	120 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	1006TAG	Aspiration	Turbo charged
No. of cylinders	6	Cooling	air to air charge cooled
Engine capacity	5.99 L	Speed 60 / 50Hz	Water cooled
Bore	100mm	Standby Hp @ 60Hz	1800 / 1500 rpm
Stroke	127mm		212 Hp
Compression Ratio	17.0:1		

Standard Single Wall Sub-base Tank: 273 Litre

Fuel Consumption	Load	I / hr	I / hr
		60Hz	50Hz
	50% load Primepower	19.4	16.5
	75% load Primepower	28.9	24.1
	100% load Primepower	37.6	31.5
	100% load Standby	41.3	34.6

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	182/182 m3min
Cooling system capacity	37.2L

Lubrication system

Forced lubrication with gear type pump. Oil filter.

Lubricating oil capacity: Total system	19 L
Oil consumption	Max. 0.2% of fuel consumption

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Effective October 1, 2005

Air intake system

Turbo charged with dry air filter.

Combustion air flow 11.17/10.72m3min

Injection system

Rotary injection pump with electronic governor. Fuel filter and pre- filter.

Electrical system

12 v starting system. Axial starter motor. 120 Ah battery 55 Amp battery charging alternator.

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 SX460 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.

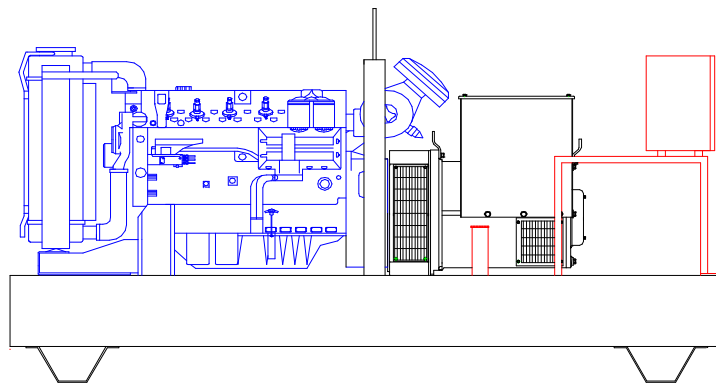
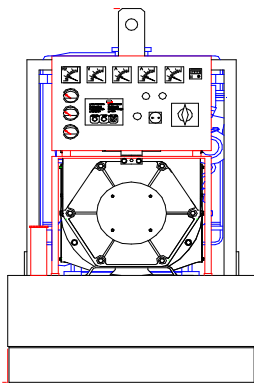
ELECTRICAL SYSTEM

Control Panel GPM-2

Voltmeter switch	1	Manual start up	■
Ammeter	3 (on 3Ph system only)	Remote control start up	■
Frequency meter	1	Startup failure	■
Hours run meter	■	Battery charge failure	■
Fuel level gauge	■	Low oil level	■
Water temperature gauge	■	High water temperature	■
Oil pressure gauge	□	Low fuel level	■
Battery intensity gauge	□	Water level in radiator	■
Battery voltage gauge	□	Emergency stop button (housed units only)	■
Main Line Breaker	■	Overspeeding	■
Auto start up for main failure	□	Overload	■
		Maintenance	■

Breaker: 120 / 240V, 1Ph = 600Amp
 120 / 208V, 3Ph = 500Amp
 347 / 600V, 3Ph = 170Amp

Dimensions



	SILENT	OPEN		
Length (L)	138	102	Outlet Air Louvre	32"
Width (W)	44	35	Inlet Air Louvre	32"
Height (H)	70	71		
Weight (lb')	4783	2953		

NOTE: Not for
 Construction use
 Consult factory.