



SOMMERS

SMG DP 300

MODEL:SMGDP300

| Power rating @ 60Hz | | Power rating @ 50Hz | |
|---------------------|-------|---------------------|-------|
| Prime | 275KW | Prime | 261KW |
| Standby | 300KW | Standby | 275KW |

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. (Make: Stamford/Newage)

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

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

| | | | |
|-------------------|------------|-------------------|-----------------|
| Model | 2306-TAG1A | Aspiration | Turbo charged |
| No. of cylinders | 6 | Cooling | Water cooled |
| Engine capacity | 14.6 Litre | Speed 60 / 50Hz | 1800 / 1500 rpm |
| Bore | 137 | Standby Hp @ 60Hz | 464 Hp |
| Stroke | 165 | | |
| Compression Ratio | 15.9:1 | | |

Standard Single Wall Sub-base Tank: 554 Litre

Fuel Consumption

| Load | I / hr | I / hr |
|-----------|--------|--------|
| | 60Hz | 50Hz |
| 25% load | 0 | 0 |
| 50% load | 39.2 | 31.5 |
| 75% load | 58.2 | 46.6 |
| 100% load | 77.4 | 62.4 |

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 | 530/438 m3min |
| Cooling system capacity | 47.0L |

Lubrication system

Forced lubrication with gear type pump. Oil filter.

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

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Effective October 1, 2005

Air intake system

Turbo charged with dry air filter.

Combustion air flow 33.9 / 18.5 m³ / min

Injection system

MEUI Injector with gear driven lift pump with electronic governor. Fuel filter and pre-filter.

Electrical system

24 V starting system. 70 Amp battery charging alternator. 2 x 12 V 120 Ah batteries. 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.

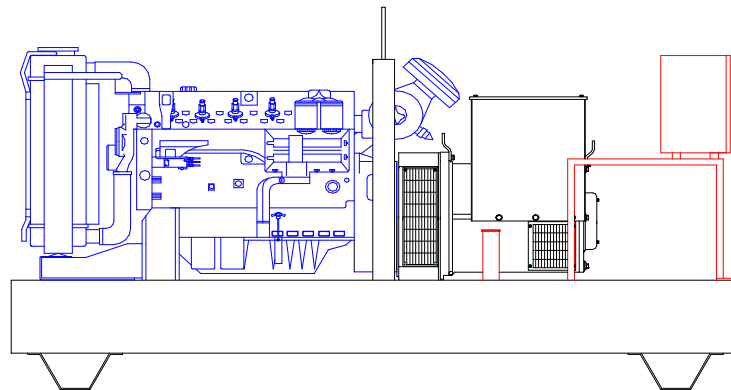
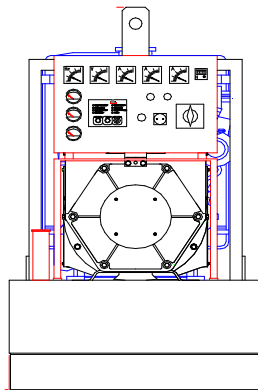
ELECTRICAL SYSTEM

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 | ■ |
| Mains-generator switch | □ | ON lamp | ■ |
| 3-phase monitoring card | □ | Heater lamp | □ |
| Hours run meter | ■ | Emergency stop button | □ |

Breaker: 120 / 208V, 3Ph = 1050Amp
347 / 600V, 3Ph = 375Amp

Dimensions



| | SILENT | OPEN |
|-------------|---------------|-------------|
| Length (L) | 180 | 135 |
| Width (W) | 60 | 46 |
| Height (H) | 88 | 85 |
| Weight (lb) | 10570 | 8035 |

Outlet Air Louvre n/a
Inlet Air Louvre n/a

NOTE: Not for
Construction use
Consult factory.