



# SOMMERS

## SMG DV 300

MODEL:SMG DV300

Power rating @ 60Hz		Power rating @ 50Hz	
<b>Prime</b>	272 KW	<b>Prime</b>	240 KW
<b>Standby</b>	300 KW	<b>Standby</b>	264 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: VOLVO PENTA (Four- stroke diesel engine with direct injection)

Model	TAD 941 GE	Aspiration	Turbo Charged
No. of cylinders	6	Cooling	Water cooled
Engine capacity	9.360c.c.	Speed 60 / 50Hz	1800/1500rpm
Bore	120mm		
Stroke	138mm		
Compression Ratio	17.4:1		

Standard Single Wall Sub-base Tank: 418 Litre

	Fuel consumption @ 60HZ			Fuel consumption @ 50HZ		
	I/h	Run Time		I/h	Run Time	
25% load	17.8		31.12	16.4		33.78
50% load	32.2		17.20	29.7		18.65
75% load	47.1		11.76	42.9		12.91
100% load	73.9		8.64	57.7		9.60

### 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 305 m3min,

### Lubrication system

Forced lubrication with gear type pump. Oil filter.

Oil sump capacity	33 L
Oil consumption	0.06 Fuel Consumption (%)

## Air intake system

Turbo charged with dry air filter.

Combustion air flow 17,7m3min

## Injection system

In-Line injection pump with GAC electronic governor. Fuel filter and pre-filter

## Electrical system

24 V starting system. Axial starter motor. 2 x 12V 120 Ah batteries 60 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 industrial exhaust silencer with 10dB(A) noise reduction, flexible hose and brackets. Optionally, a residential, critical or hospital grade silencer can be supplied.

## Alternator

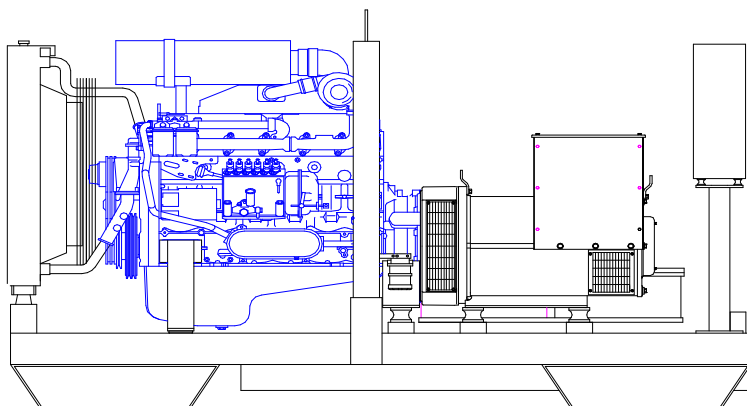
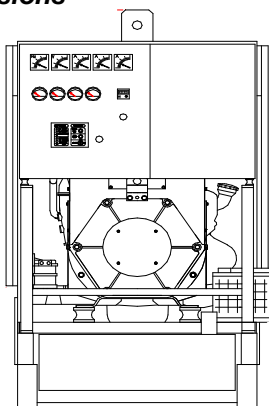
Stamford / Newage Brushless Alternator. Self regulated via AVR keeping voltage within 1.5%. Windings are Class H insulated, All wound components are impregnated with polyester resin for resistance to acids and oils. Protection grade IP 22.

## ELECTRICAL SYSTEM

### Control Panel Deep Sea 5310 RS485

3pos. Switch (Auto/Off/Manual)	■	Three-phase terminals	■
Ammeter	3	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	□

## Dimensions



Length (L) 135.03"  
 Width (W) 45.27"  
 Height (H) 86.90"  
 Weight 7130Lb's

NOTE: Not for  
 Construction use  
 Consult factory.