



SOMMERS

SMG DV 440

MODEL:SMG DV440

Power rating @ 60Hz		Power rating @ 50Hz	
Prime	406.4 KW	Prime	369 KW
Standby	451.2 KW	Standby	404 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 1640 GE	Aspiration	Turbo Charged
No. of cylinders	6	Cooling	Water cooled
Engine capacity	16120c.c.	Speed 60 / 50Hz	1800/1500rpm
Bore	144mm		
Stroke	165mm		
Compression Ratio	17.5:1		

Fuel Tank Capacity 943 Litres

	Fuel consumption @ 60HZ			Fuel consumption @ 50HZ		
	l/h	Run Time		l/h	Run Time	
25% load	26.6		35.45	25		37.72
50% load	48.4		19.48	44.7		21.09
75% load	71.2		13.24	65.3		14.44
100% load	97.3		9.69	88		10.71

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	475m ³ min 60 / 25L
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Lubrication system

Forced lubrication with gear type pump. Oil filter.

Oil sump capacity	48 L
Oil consumption	0.1 Fuel Consumption (%)

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Air intake system

Turbo charged with dry air filter.

Combustion air flow 31.7m³min

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 140 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

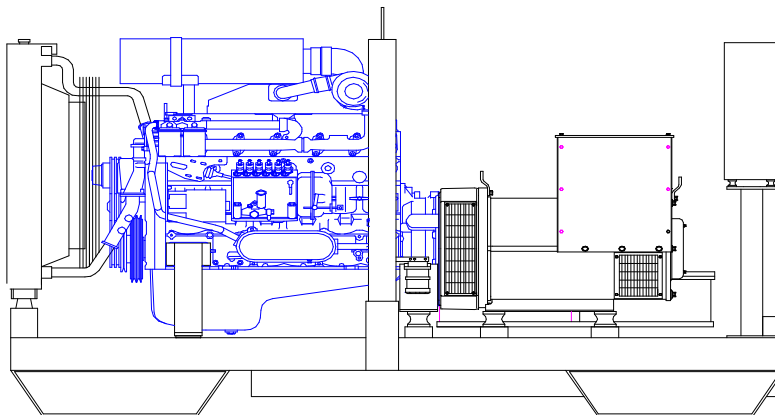
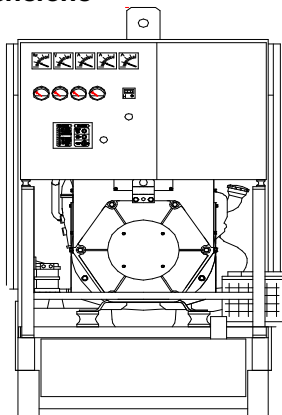
Stamford / Newage Brushless Alternator. Self regulated via AVR keeping voltage within 1.5%. Windings are Class H insulated, All wound components are impregnated with polyester resin for resistance to acids and oils. Protection grade IP 22.

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) 150"
 Width (W) 47.24"
 Height (H) 93.11"
 Weight 9867.37Lb's

Outlet Air Louvre n/a
 Inlet Air Louvre n/a
 Radiator Height off Ground n/a

NOTE: Not for
 Construction use
 Consult factory.