DIESEL GENERATOR SET 50Hz/1500 rpm

MODEL: VG1000CS





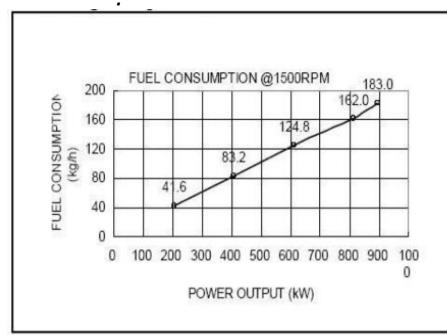
Genset Model	VG1000CS	
Prime Power(50HZ)	728KW / 910KVA	
Standby Power(50HZ)	800KW / 1000KVA	
Frequency/Speed	50Hz/1500rpm	
Standard Voltage	230V/400V	
Phases	Three phases, four wires	
Manufacturer	Vega Power International PTE.LTD	

- ♦ Assembled by Cummins diesel engine and Stamford alternator.
- ♦ Three filters as standard, fuel and water separator as optional.
- ♦ Radiator and fan with safety guard.
- ♦ Single bearing alternator IP 23, Insulation Class H.
- ♦ Heavy duty steel as base frame and 8hrs operation base fuel tank.
- ♦ Automatic control panel and 3 poles circuit breaker, internal cable.
- ♦ 12V or 24V battery, battery wires.
- ♦ Battery charger and float battery charger as standard supply scope.
- ♦ Optional soundproof canopy, ATS, synchronization panel, movable trailers.

Engine Data:

Manufacturer	Chongqing Cummins Engine Co. Ltd.
Model	KTA38-G2A
Engine speed	1500rpm
Engine power	
Standby power	895kw /1200HP
Prime power	813kw /1090HP
Туре	4 cycle, 60°Vee; 12-cylinder
Aspiration	Turbocharged and Aftercooled
Governor	electrical
Bore * Stroke	159*159 mm
Displacement	37.8 L
Compression ratio	14.5:1
Idle speed	725 – 775 r/min
Brake mean effective pressure	4648kpa
Piston speed	7.9 m/s
Friction horsepower	86kw(115HP)

Fuel Consumption:



P	OWER	FULE	CONSUM	PT I ON
- %	BHP	kWm	kg./hr	L/hr
STA	NDBY			
110	1200	895	183	215
PRI	ME			
100	1090	813	162	191
75	818	610	125	147
50	546	407	83	98
25	272	203	42	49
0	0	0		

Exhaust system

Max. allowable back pressure	10 kPa
Standard exhaust pipe diameter	152 mm

Air induction

Maximum allowable intake air restriction		
with clean filter element	3.73 kPa	
with dirty filter element	6.23 kPa	
Intake Air alarm temperature	82 °C	

Cooling system

Coolant capacity	
With heat exchanger	66L
With explantion tank & LTA	112L
Standard thermostat(modulating) range	82-93 °C
Max. coolant temerature	96.1 °C
Max. allowable top tank temerature for standby/prime power	104/100 °C

Lubrication system

Oil Pressure	
Idle speed	138 kPa
Rated speed	310-448 kPa
Max. allowable oil temperature	121°C
Oil Pan capacity - Low/High	121.1 /151.4L
Total system capacity(excluding by-pass filter)	135.1 L
Angularity of oil pan-Front Down	30°

Fuel System

Type Injection system	Direct injection Cummins PT
Min. Allowable fuel tank vent capability	425 L/h

Electric system

Electric system	
Min. recommended battery capacity (24V)	
Cold soak at 10°C or aboveCCA	1200
Cold soak at 0-10°C or aboveCCA	1280
Cold soak at -18-0°C or aboveCCA	1800
Max. allowable resistance of Starting circuit	0.002 ohm
Battery recharge system, negative ground	35 ampere
Starter(heave, Anode)	24 Volt

Performance data

	Standby power	Prime power
Governed Engine SpeedRPM	1500RPM	1500RPM
Engine Idle SpeedRPM	725-775	725-775
Gross Engine Power OutputKW	896	813
Friction HorsepowerKW	86	86
Intake Air FlowLitre/sec	1067	1001
Exhaust Gas FlowLitre/sec	2995	2759
Exhaust Gas Temperature°C	521	507
Heat Rejection to Ambient/min(KW)	130	117
Heat Rejection to CoolantKW	549	494

Alternator Specifications:

Manufacturer	Cummins Generator Technologies(China) Co. Ltd	
Model	HCl634H1	
Frequency	50HZ	
Voltage	400V	
Output powerContinuous duty/40°C	910kVA / 728kW	
Stand-by/27°C	1000kVA / 800kW	
Phase	3 ph.	
Power factor	P.F.=0.8	
Insulation class	Н	
Winding pitch	2/3 (N° 6S)	
Number of wires	6	
Protection	IP23	
Altitude	≤ 1000 m	
Overspeed	2250 min ⁻¹	
Excitation system	Shunt	
AVR type	MX321	
Voltage regulation	±0.5%	
Short-circuit current	300% (3IN) 0s	
Waveform distortion	no load < 1.5% non-distorting balanced linear load < 5.0%	
Telephone interference	THF< 2%	
Air follow	1.1 m ³ /s	
Relative humidity	≤ 95%	
Bearing	Single	
Coupling	Direct	

ALTERNATOR GENERAL DATA:

- ♦ Operate either 50Hz or 60Hz.
- ♦ Standard enclosure IP23, but IP44, IP55 for option
- ♦ Insulation class H.
- ♦ Shunt excitataion systems.
- ♦ PMG system for options.
- ♦ Automatic voltage regulator

- ♦Stator grease insulation covered
- ♦Rotator and excitation high polymer
- ♦ Resist the corruption oil and acid
- ♦ Rotator balance is in accordance with BS5625 standard 12.5
- ♦High-quality lubrication sealed long-time bearing
- ♦ Single bearing alternator ♦ Rotator silicon steel close tight

Control System



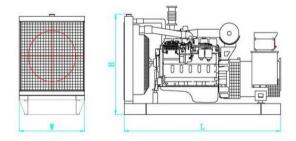
The **DSE6120** is made by DEEPSEA and is a new control module for single gen-set applications, and it is an Automatic Start Control Module and is simple to operate, and the module includes USB, RS232 and RS485

for expansion device connectivity.

Specifications: Frequency meter, Ammeter, Voltmeter Alarms and faults Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop.

Engine parameters: Hours counter, Oil pressure, Water, temperature, Engine speed, Battery voltage, Fuel level.

1.Open Version:

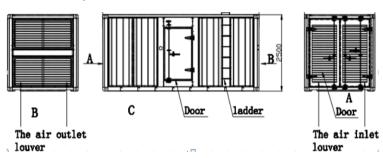


Open Type (Standard Configuration)

Overall Size: $4250 \times 2060 \times 2200$ mm(L*W*H)

Weight: 7213kg

2. Soundproof Version:



Soundproof Type

Overall size: $5800 \times 2280 \times 2500$ mm(L*W*H)

Weight: 8263kg