MODEL: VG1100CS





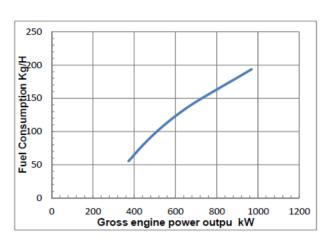
Genset Model	VG1100CS	
Prime Power(50HZ)	800KW / 1000KVA	
Standby Power(50HZ)	880KW / 1100KVA	
Frequency/Speed	50Hz/1500rpm	
Standard Voltage	230V/400V	
Phases	Three phases, four wires	
Manufacturer	Vega Power International PTE.LTD	

- ♦ 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-G5	
Engine speed	1500rpm	
Engine power		
Standby power	880kw /1180HP	
Prime power	970kw /1300HP	
Туре	4 cycle, 60°Vee; 12-cylinder	
Aspiration	Turbocharged and Aftercooled	
Governor	electrical	
Bore * Stroke	159*159 mm	
Displacement	37.8 L	
Compression ratio	13.9:1	
Idle speed	725 – 775 r/min	
Brake mean effective pressure	1868kpa	
Piston speed	7.9 m/s	
Friction horsepower	86kw(115HP)	

Fuel Consumption:



OU.	TPUT POV	VER	CONSU	MPTION	BF	sc
%	ВНР	kW	Lb/h	Kg/h	g/kW.h	Lb/BHP.h
			1500	RPM		
STANDB	 Y					
100 PRIME	1300	970	427	194	200	0.329
100	1180	881	392	178	202	0.332
75	885	661	302	137	207	0.341
50	664	496	212	96	194	0.319
25	498	372	122	55	149	0.245

Exhaust system

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

Air induction system

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	53L
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	
ldle 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)	151.4 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

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
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	970	881
Friction HorsepowerKW	86	86
Intake Air FlowLitre/sec	1213	1140
Exhaust Gas FlowLitre/sec	3306	3051
Exhaust Gas Temperature°C	513	499
Heat Rejection to Ambient/min(KW)	138	125
Heat Rejection to CoolantKW	594	539

Alternator Specifications:

Manufacturer	Cummins Generator Technologies(China) Co. Ltd
Model	HCI634J
Frequency	50HZ
Voltage	400V
Output powerContinuous duty/40°C	1000kVA / 800kW
Stand-by/27°C	1100kVA / 880kW
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
- ♦ Single bearing alternator

- ♦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
- ♦ 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

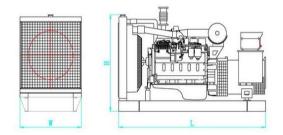
for expansion device connectivity.

Specifications: Frequency meter, Ammeter, Voltmeter
Alarms and faults Oil pressure, water temperature, No startup, 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.

Weight and Dimensions

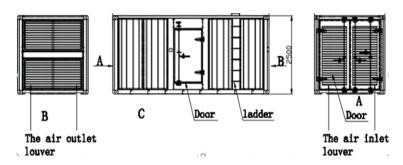
1.Open Version:



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