

MODEL : VG313CS



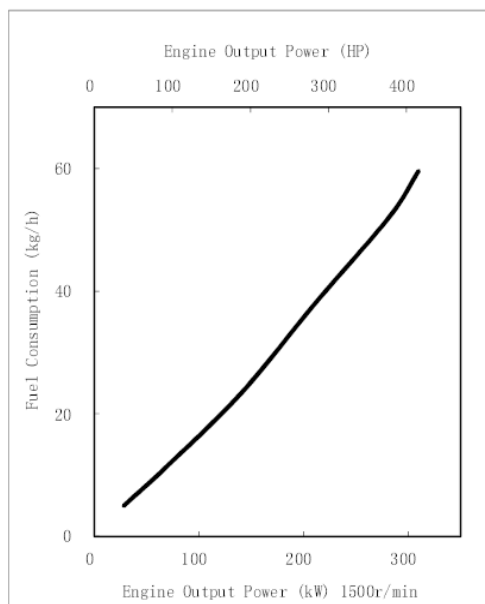
Genset Model	VG313CS
Prime Power(50HZ)	240KW / 300KVA
Standby Power(50HZ)	264KW / 330KVA
Frequency/Speed	50Hz/1500rpm
Standard Voltage	220V/380V
Phases	Three phases, four wires
Manufacturer	Vega Power International PTE.LTD

- ◆ 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	NTA855-G1A
Engine speed	1500rpm
Engine power	
-----Standby power	310KW
-----Prime power	282KW
Type	4 cycle, In-line, 6-cylinder
Aspiration	Turbocharged, after cooled
Governor	electrical
Bore * Stroke	125*147 mm
Displacement	10.8L
Compression ratio	15:01

Fuel Consumption:



	Output Power		Fuel Consumption
	HP	kW	kg/h
Standby100%	415	310	59.6
Prime100%	378	282	52.1
75%	284	212	38.2
50%	189	141	23.5
25%	95	71	11.7
10%	37	28	5.0
Cont.100%	282	210	40

Exhaust system

Max. allowable back pressure	10 kPa
Standard exhaust pipe diameter	

Air induction system

Maximum allowable intake air restriction	
-----with dirty filter element	6.2 kPa
with Normal Duty Air Cleaner and Clean Filter Element	2.5kpa
with Heavy Duty Air Cleaner and Clean Filter Element	3,7

Cooling system

Coolant capacity	
-----Engine only	9.5 L
-----With radiator	N/A
-----With heat exchanger	34
Standard thermostat(modulating) range	82-94 °C
Max. coolant temerature	
Max. allowable top tank temerature for standby/prime power	104/100 °C
Min. recommended top tank temperature	

Lubrication system

Oil Pressure	
-----Idle speed	69 kPa
-----Governed speed	207-345 kPa
Max. allowable oil temperature	121°C
Oil Pan capacity - Low/High	26.5 / 34 L
Total system capacity	36.7 L
Angularity of oil pan-Front Down/Front Up/Side to Side	45 °/42 °/45 °

Fuel System

Type Injection system	Direct injection Cummins PT
Maximum Allowable Restriction to Fuel Pump	
With Clean Fuel Filter - in.Hg (kPa)	13,5
With Dirty Fuel Filter - in.Hg (kPa)	27,1
Fuel rail pressure	
Max. Fuel temperature	

Electric system

Min. recommended battery capacity (24V)	
50°F(10°C) and Above-CCA	600
32°F-50°F (0-10°C) and Above-CCA	640
0°F-32°F (-18°C- 0°C) and Above-CCA	900

Performance data

	Standby power	Prime power
Governed Engine Speed.....RPM	1500RPM	1500RPM
Engine Idle Speed.....RPM	675-700	675-700
Gross Engine Power Output.....KW	310	282
Friction Horsepower.....KW	22	22
Engine Water Flow to Engine.....Litre/sec	3,8	3,8
Intake Air Flow.....Litre/sec	395	365
Exhaust Gas Flow.....Litre/sec	950	850
Exhaust Gas Temperature... °C	595	580
Radiated Heat to Ambient.....KW	43	40
Heat Rejection to Coolant.....KW	95	83
Heat Rejection to Exhaust.....KW	270	234

Alternator Specifications:

Manufacturer	Cummins Generator Technologies(China) Co. Ltd
Model	HCI444D
Frequency	50HZ
Voltage	380V
Output power-----Continuous duty/40°C	300kVA / 240kW
-----Stand-by/27°C	330kVA / 264kW
Phase	3 ph.
Power factor	P.F.=0.8
Insulation class	H
Winding pitch	2/3 (N ° 6)
Number of wires	12
Protection	IP23
Altitude	≤ 1000 m
Overspeed	2250 min ⁻¹
Excitation system	Shunt
AVR type	AS440
Voltage regulation	±1%
Waveform distortion	no load < 1.5% non-distorting balanced linear load < 5.0%
Telephone interference	THF< 2%
Air follow	0.51 m ³ /s
Relative humidity	≤ 95%
Bearing	Single

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

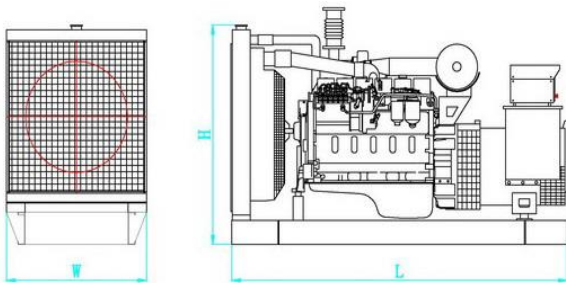
for expansion device connectivity.

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.

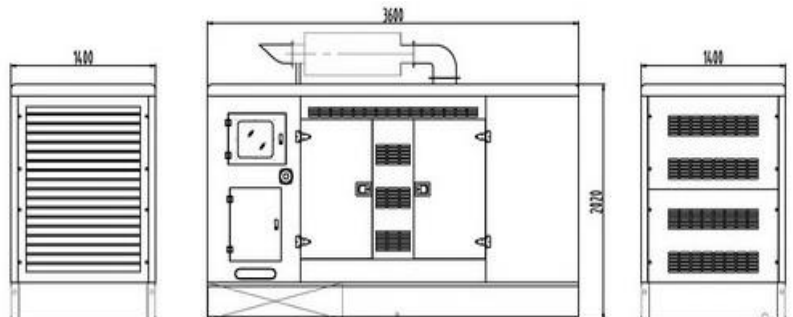
Weight and Dimensions

1.Open Version:



Open Type (Standard Configuration)
Overall Size: 2950 × 1010 × 1710mm(L*W*H)
Weight: 2417kg

2. Soundproof Version:



Soundproof Type
Overall size: 3600 × 1400 × 2070mm(L*W*H)
Weight: 3097kg