

MODEL: VG171CS



Genset Model	VG171CS
Prime Power	124KW/155KVA
Standby Power	136KW / 171KVA
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.

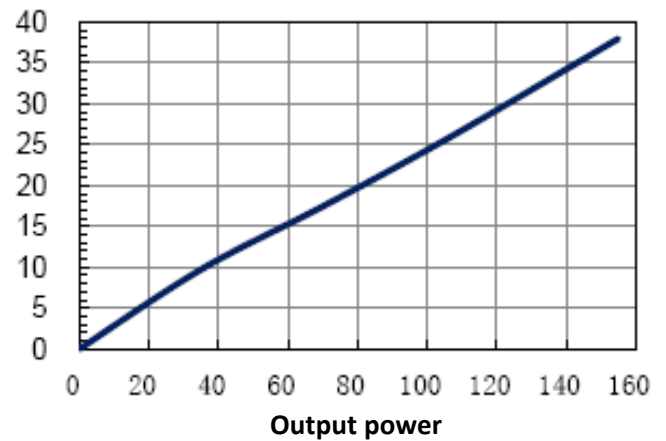
Engine Data:

Manufacturer	Dongfeng Cummins Engine Co., Ltd.
Model	6BTAA5.9-G12
Engine speed	1500rpm
Engine power	
-----Standby power	155kw / 207HP
-----Base output power	140kw / 187HP
Aspiration	Turbocharged & Charge Air Cooled
Cylinder quantity	6
Bore * Stroke	102*120mm
Displacement	5.9L
Fuel system	BYC P7100/Electronic Governor
Governor Regulation	≤5%
Low idle	750-850 rpm
Piston speed	6.0 m/s
Friction energy output	12.7 kw

Fuel Consumption:

output power			fuel consumption	
%	KW	HP	g/KW.h	L/h
standby power				
100	155	207	204	38,0
base output power				
100	140	187	203	34
75	105	140	202	26
50	70	93	207	17
25	35	47	231	10
continue power				
100%	126	N/A	N/A	N/A

fuel consumption



Exhaust system:

Max. back pressure	10kPa
Diameter of exhaust pipe recommended	75mm
Exhaust flow (base output _ standby power)	321 - 357 L/sec
Exhaust temperature (base output _ standby power)	495-507 °C

Air intake system:

Maximum Intake Air Restriction with Heavy Duty Air Cleaner	
Dirty Element	3.7kPa
Clean Element	6.2kPa
minimum diameter of intake pipe recommended	76 mm
Air intake flow (base output _ standby power)	137-150 L/sec

Lubrication system:

Normal oil pressure range	
-----Low idle	207 kPa
-----Rated speed	345 kpa
Max. oil temperature permitted in oil pan	121 °C
Oil pan capacity (Max_ Min)	14.2 _ 12.3 L
Lubrication system Min. capacity (oil pan + oil filter)	16.4 L
Usage inclining degree permitted (any direction)	40 °

Fuel system:

Fuel injection pump model	BYC P7100/Electronic Governor
Max. fuel input resistance of transfer pump	13.6kPa
Max. overflow fuel resistance at overflow pipe of injector	67.7kPa
Total fuel overflow amount	30 L/h

Cooling system:

Coolant capacity – engine only	10L
Max. coolant cycling resistance exterior engine	28 kPa
Thermostat adjusting temperature (range)	82-95 °C
Min. opening pressure of radiator cap	69 kPa
Max. coolant temperature permitted	104 - 100 °C
Engine coolant flow (base output - standby power)	1.7-1.7 L/sec
Coolant energy output (base output - standby power)	57-58 kW

Electric system:

Cranking Motor (Heavy Duty, Positive Engagement)	24V
Battery Charging System, Negative Ground	40A
Maximum Allowable Resistance of Cranking Circuit	0.002 Ω
Minimum Recommended Battery Capacity-Cold Soal @ 10°F (-12°C) and Above	400 0°F CCA

Alternator Specifications:

Manufacturer	Cummins Generator Technologies(China) Co. Ltd
Model	UCI274F
Output power	128KW
AVR model	AS440
Number of phase	3
Power factor (Cos Phi)	0,8
Altitude	≤ 1000 m
Overspeed	2250RPM
Number of Pole	4
Exciter type	Self Excited
Insulation class	H
Voltage regulation	±1%
protection	IP23
Waveform distortion	no load < 1.5% non-distorting balanced linear load < 5.0%
Telephone interference	THF< 2%
Bearing	single
Coupling	Direct

Control system:



The **DSE6120** is made by DEESEA 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

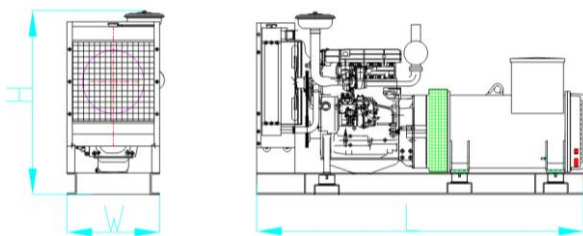
for expansion device connectivity.

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.

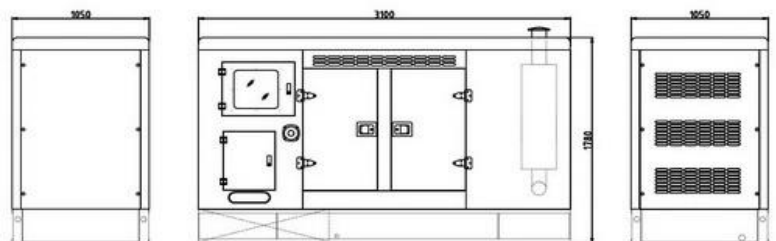
Weight and Dimensions

1.Open Version:



Open Type (Standard Configuration)
Overall Size: 2300×900 ×1320mm(L*W*H)
Weight: 1300kg

2. Soundproof Version:



Soundproof Type
Overall size: 3350× 1120×1870mm(L*W*H)
Weight: 1850kg