

MODEL: VG206-ICS



Genset Model	VG206-ICS
Prime Power	150KW / 188KVA
Standby Power	165KW / 206KVA
Frequency/Speed	50Hz/1500rpm
Standard Voltage	230V/400V
Phases	Three phases, four wires
Manufacturer	Vega Power International PTE.LTD

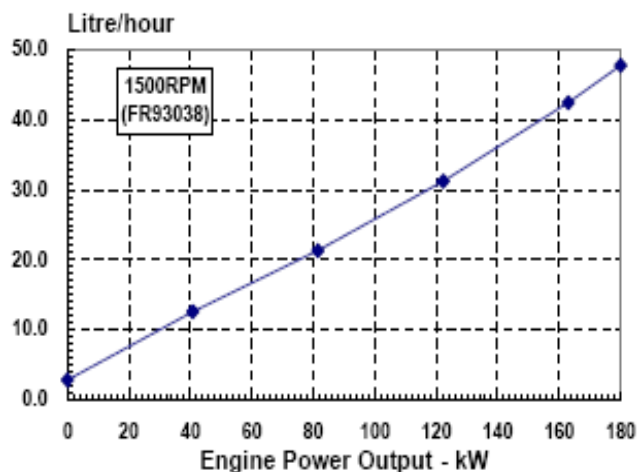
- ◆ Assembled by Cummins diesel engine and Stamford alternator.
- ◆ Three filters as standard, fuel and water separator as optional.
- ◆ Radiator and fan with safety guard.
- ◆ Single bearing alternator IP 23, Insulation Class H.
- ◆ Heavy duty steel as base frame and 8hrs operation base fuel tank.
- ◆ 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.

Engine Data:

Manufacturer	Dongfeng Cummins Engine Co., Ltd.
Model	6CTA8.3-G1
Engine speed	1500rpm
Engine power	
-----Standby power	180kw / 241HP
-----prime power	163kw / 218HP
-----Continuous power	133kw / 178HP
Air intake way	after-cooled, turbo-charged
Cylinder quantity	6
Bore * Stroke	114*135 mm
Displacement	8.3L
Fuel system	BYC PB/RSV Mechanical
Governor Regulation	≤8%
Low idle	700-900 rpm
Piston speed	6.8 m/s
Friction energy output	17 kw
Emission Certification	MEP STAGE I

Fuel Consumption:

output power			fuel consumption	
%	KW	HP	g/KW.h	L/h
standby power				
100	180	241	219	48
base output power				
100	163	218	215	42
75	122	164	211	31
50	82	109	216	21
25	41	55	255	13
continue power				
100%	133	178	212	34



Exhaust system:

Max. back pressure	10kPa
Diameter of exhaust pipe recommended	75mm
Maximum Static Supported Weight at the Turbocharger Outlet	14N.m
Exhaust gas flow (prime power - standby power)	521-578 L/sec
Exhaust gas temperature (prime power - standby power)	536-563 °C

Air intake system:

Max. air intake resistance	
Dirty Element	6kPa
Clean Element	4kPa
Minimum Dirt Holding Capacity with Heavy Duty Air Cleaner	25g/cfm
Recommended intake piping size (inner diameter)	75mm
Air intake flow (prime power - standby power)	192-206 L/sec

Lubrication system:

Normal oil pressure range	
-----idle speed	103 kPa
-----governor speed	276-414 kpa
Max. oil temperature permitted in oil pan	121 °C
Minimum required lube system capacity-sump plus filters	27.6L
Angularity of Standard Oil Pan: (Values stated are for intermittent operation only): (any direction)	45 °

Fuel system:

Type Injection System	BYC PB direct injection
Maximum Restriction at Lift Pump	27 kPa
Maximum Allowable Head on Injector Return Line (Consisting of Friction Head and Static Head)	33.7 kPa
Maximum Fuel Inlet Temperature	71 °C
Maximum Fuel Flow on the Supply Side of the Fuel Pump	193kg/hr

Cooling system:

Coolant capacity – engine only	12.3L
Max. coolant cycling resistance exterior engine	28 kPa
Maximum Static Head of Coolant Above Engine Crank Centerline	18.3m
Thermostat adjusting temperature (range)	82-95 °C
Min. opening pressure of radiator cap	69 kPa
Maximum Top Tank Temperature for Standby/Prime Power	104 / 100 °C
Engine coolant flow (prime power - standby power)	3.3 L/s

Electric system:

Cranking Motor (Heavy Duty, Positive Engagement)	12V	24V
Battery Charging System, Negative Ground	63A	40A
Maximum Allowable Resistance of Cranking Circuit	0.00075 Ω	0.002 Ω

Emission:

Gaseous Emissions per GB 20891-2007	
Weight-Specific NOx	9.2 g/KW.h
Weight-Specific HC	1.3 g/KW.h
Weight-Specific CO	5.0 g/KW.h
Weight-Specific Particulates	0.54 g/KW.h

Alternator Specifications:

Manufacturer	Cummins Generator Technologies(China) Co. Ltd
Model	UC1274H
Output power	160KW
AVR model	MX321
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

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

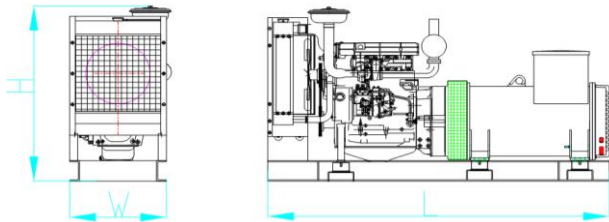
for expansion device connectivity.

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

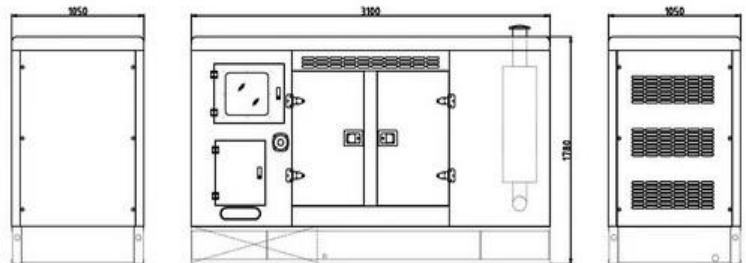
Weight and Dimensions

1. Open Version:



Open Type (Standard Configuration)
Overall Size: 2380×840×1560mm(L*W*H)
Weight: 1730kg

2. Soundproof Version:



Soundproof Type
Overall size: 3350× 1100×1880mm(L*W*H)
Weight: 2270kg

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