

MODEL: VG275-IICS



Genset Model	VG275-IICS
Prime Power	200KW / 250KVA
Standby Power	220KW / 275KVA
Frequency/Speed	50Hz/1500rpm
Standard Voltage	230V/400V
Phases	Three phases, four wires
Manufacturer	Vega Power International PTE.LTD

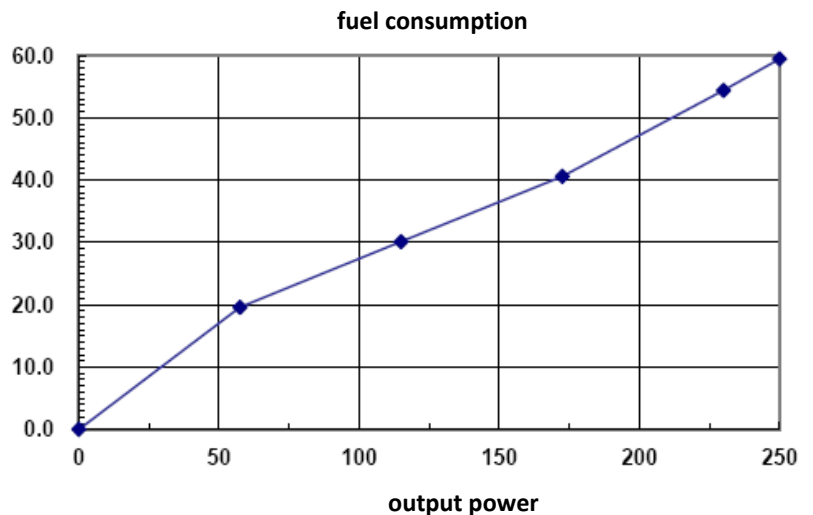
- ◆ Assembled by Cummins diesel engine and Stamford alternator.
- ◆ Three filters as standard, fuel and water separator as optional.
- ◆ Radiator and fan with safety guard.
- ◆ Single bearing alternator IP 23, Insulation Class H.
- ◆ Heavy duty steel as base frame and 8hrs operation base fuel tank.
-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

Engine Data:

Manufacturer	Dongfeng Cummins Engine Co., Ltd.
Model	6LTAA8.9-G3
Engine speed	1500rpm
Engine power	
-----Standby power	250kw / 335HP
-----Base output power	230kw / 308 HP
Air intake way	Turbocharged and Charge Air Cooled
Cylinder quantity	6
Bore * Stroke	114*145 mm
Displacement	8.9L
Fuel system	BYC P7100/Electronic Governor
Governor Regulation	≤5%
Low idle	900-1100 rpm
Piston speed	7.30 m/s
Friction energy output	26 kw

Fuel Consumption:

output power			fuel consumption	
%	KW	HP	g/KW.h	L/h
standby power				
100	250	335	196	59
base output power				
100	230	308	195	54
75	173	230	194	41
50	115	154	216	30
25	58	77	281	20
continue power				



Exhaust system:

Max. back pressure	10 kPa
Exhaust gas flow (base output - standby power)	584-643L/sec
Exhaust gas temperature (base output - standby power)	533-542 °C

Lubrication system:

Minimum Engine Oil Pressure for Engine Protection Devices	
-----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	27.6 L

Fuel system:

Type Injection System	BYC P7100 direct injection
Maximum Restriction at Lift Pump	13.6 kPa
Maximum Fuel Flow on the Supply Side of the Fuel Pump	208 L/hr
Maximum Fuel Inlet Temperature	42 °C
Maximum Allowable Head on Injector Return Line	33.9 kPa

Air intake system:

Maximum Intake Air Restriction with Heavy Duty Air Cleaner	
Dirty Element	3.7 kPa
Clean Element	6.2 kPa
Air intake flow (prime power - standby power)	216-235L/sec

Cooling system:

Coolant capacity – engine only	11.1 L
Max. coolant cycling resistance exterior engine	28 kPa
Maximum Static Head of Coolant Above Engine Crank Centerline	18.3m
Standard Thermostat (Modulating) Range	82-95 °C
Min. opening pressure of radiator cap	103 kPa
Maximum Top Tank Temperature for Standby/Prime Power	104/100 °C
Engine coolant flow (prime power - standby power)	3.3-3.3 L/s

Electric system:

Cranking Motor (Heavy Duty, Positive Engagement)	12V	24V
Battery Charging System, Negative Ground	100A	70A
Maximum Allowable Resistance of Cranking Circuit	0.001 Ω	0.002 Ω
Minimum Recommended Battery Capacity—Cold Soak @ 0 to 32-F (-18 to 0-C)	1500 0°F CCA	750 0°F CCA

Alternator Specifications:

Manufacturer	Cummins Generator Technologies(China) Co. Ltd
Model	UCDI274K
Output power	200KW
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

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

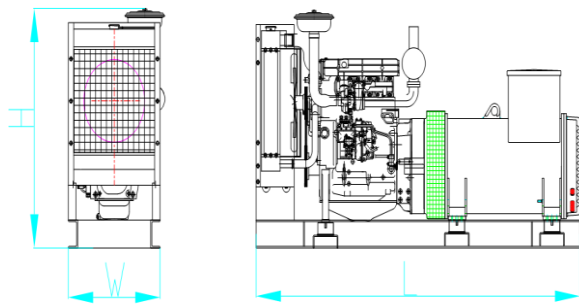
for expansion device connectivity.

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.

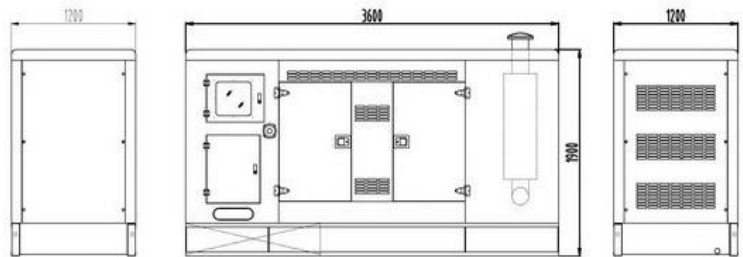
Weight and Dimensions

1. Open Version:



Open Type (Standard Configuration)
Overall Size: 2570×1000 ×1765mm(L*W*H)
Weight: 2000kg

2. Soundproof Version:



Soundproof Type
Overall size: 3600× 1200×2040mm(L*W*H)
Weight: 2700kg

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