

MODEL: VG110-IICS





Genset Model	VG110-IICS	
Prime Power	80KW / 100KVA	
Standby Power	88KW / 110KVA	
Frequency/Speed	50Hz/1500rpm	
Standard Voltage	230V/400V	
Phases	Three phases, four wires	
Manufacturer	Vega Power International PTE.LTD	

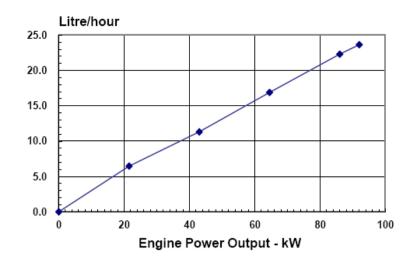
- ♦ Assembled by Cummins diesel engine and Stamford alternator.
- ♦ Three filters as standard, fuel and water separator as optional.
- ♦ Radiator and fan with safety guard.
- ♦ Single bearing alternator IP 23, Insulation Class H.
- ♦ Heavy duty steel as base frame and 8hrs operation base fuel tank.
- ♦ 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	6BT5.9-G2	
Engine speed	1500rpm	
Engine power		
Standby power	92kw / 123HP	
Base output power	86kw / 115HP	
Aspiration	Turbochanged	
Cylinder quantity	6	
Bore * Stroke	102*120mm	
Displacement	5.9L	
Fuel system	BYC A/Electronic Governor	
Speed-droop	≤5%	
Low idle	750-950 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	92	123	212	23,6
base output power				
100	86	115	214	22,3
75	64,5	86	216	16,9
50	43	58	217	11,3
25	21,5	29	248	6,5
continuse power				
N/A	N/A	N/A	N/A	N/A



Exhaust system:

Max. exhaust back pressure	10kPa
Exhaust flow (prime power - standby power)	250-280 L/sec
Exhaust temperature (prime power - standby power)	526-565 °C

Air intake system:

Max. air intake resistance	
Dirty Element	6.2kPa
Clean Element	3.7kPa
Air intake flow (prime power - standby power)	100-108 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
Lubrication system Min. capacity (oil pan + oil filter)	16.4L

Fuel system:

Fuel injection pump model	BYC A direct injection
Max. fuel input resistance of transfer pump	13.6 kPa
Maximum Fuel Inlet Temperature	40 °C
Total fuel overflow amount	30 L/h

Cooling system:

Coolant capacity – engine only	7.9L
Max. coolant cycling resistance exterior engine	28 kPa
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)	2.0 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
Minimum Recommended Battery Capacity —Cold Soak @ 0 to 32-F (-18 to 0-C)	625 0°F CCA	312 0°F CCA

Alternator Specifications:

Manufacturer	Cummins Generator Technologies(China) Co. Ltd
Model	UCI274C
Output power	80KW
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	н
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

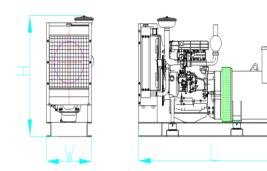
for expansion device connectivity.

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

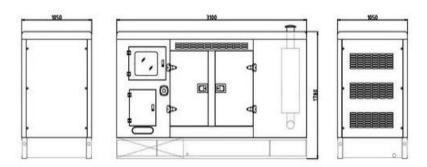
1.Open Version:



Open Type (Standard Configuration)
Overall Size: 2300×785 ×1450mm(L*W*H)

Weight: 1150kg

2. Soundproof Version:



Soundproof Type

Overall size: 2900×1100×1800mm(L*W*H)

Weight: 1800kg