The power for the better life

MODEL: VG344CS





Genset Model	VG344CS	
Prime Power	250KW / 313KVA	
Standby Power	275KW / 344KVA	
Frequency/Speed	50Hz/1500rpm	
Standard Voltage	230V/400V	
Phases	Three phases, four wires	
Manufacturer Vega Power International PTE.		

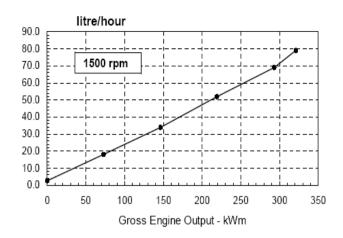
- ♦ Assembled by Cummins diesel engine and Stamford alternator.
- ♦ Three filters as standard, fuel and water separator as optional.
- ♦ Radiator and fan with safety guard.
- ♦ Single bearing alternator IP 23, Insulation Class H.
- ♦ Heavy duty steel as base frame and 8hrs operation base fuel tank.
-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

Cummins Engine Data:

Manufacturer	Xi'an Cummins Engine Co., Ltd.	
Model	QSM11-G2	
Engine speed	1500rpm	
Engine power		
standby power	321kw / 430 HP	
prime power	292kw / 391 HP	
Air intake way	Turbocharged & Charge Air Cooled	
Cylinder quantity	6	
Bore * Stroke	125*147 mm	
Displacement	10.8 L	
Fuel system	injection system	
Governor Regulation	≤3%	
Low idle	675-750 rpm	
Piston speed	7.4 m/s	
Friction energy output	30 hp	

Fuel Consumption:

output power		fuel consumption				
%	kWm	hp	kg/kWm.h	lb/hp.h	L/h	US gal/h
standby po	standby power					•
100	321	430	0,207	0,341	79	20,8
	base output power					
100	292	391	0,201	0,331	69	18,3
75	219	293	0,202	0,332	52	13,8
50	146	196	0,200	0,329	34	9,1
25	73	98	0,214	0,352	18	4,9
	continuse power					
100	248	332	0,201	0,331	59	15,5



Exhaust system:

Maximum Back Pressure at Standby Power Rating	76mm Hg
Maximum Bending Moment to the Turbo Flange	15 N.m
Exhaust Gas Flow(prime power to standby power)	1890-2130cfm
Exhaust Gas Temperature(prime power to standby power)	525-563°C

Air intake

MaximumTemperature Rise Between Engine Air Inlet and Intake Manifold	25 °C
Maximum intake air restriction (heavy duty air cleaner)	
with Dirty filter	635mmH2O
with clean filter	381mmH2O

Lubrication system:

Oil pressure @ idle - minimum	69 kPa
Total system capacity (standard pan)	36.7 L
Maximum Oil Temperature	135 ℃
Typical oil pressure range - warm engine	242-276 kPa

Fuel system:

Maximum Allowable Head on Injector Return Line (Consisting of Friction Head and Static Head)	63 mmHg
Maximum Fuel Flow to Injection Pump	284L/h
Maximum Fuel Inlet Temperature	71 °C
Maximum Return Fuel Flow	276L/h
Return Fuel Temperature @ 104°F (40°C) Fuel Inlet Temperature	80 °C

Cooling system:

Coolant capacity – engine only	9.5 L
Maximum Allowable Pressure Drop from Turbo Outlet to Intake	64 mm Hg
Manifold	0.1.11111116
Maximum Coolant Friction Head External to Engine	55kPa
Maximum Static Head of Coolant Above Engine Crank Centerline	14m
Standard Thermostat (Modulating) Range	82-93°C
Minimum Pressure Cap	69kPa
Maximum Top Tank Temperature for Standby / Prime Power	100-104°C

Electric system:

System voltage	24V	
Minimum Recommended Battery Capacity ◆ Cold Soak @ 0 °F to	1250 0°F CCA	
32 °F (-18 °C to 0 °C)		

Alternator Specifications:

Cummins Generator Technologies (China) Co. Ltd	
HCI444ES	
50HZ	
400V	
315kVA / 252kW	
341kVA / 272kW	
3 ph.	
P.F.=0.8	
Н	
2/3 (N [°] 6)	
12	
IP23	
≤ 1000 m	
2250 min ⁻¹	
Self Excited	
AS440	
±1%	
no load < 1.5% non-distorting balanced linear load < 5.0%	
THF< 2%	
0.51 m ³ /s	
≤ 95%	
Single	

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

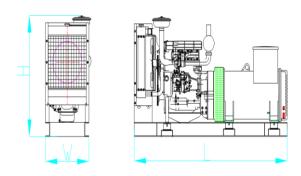
for expansion device connectivity.

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

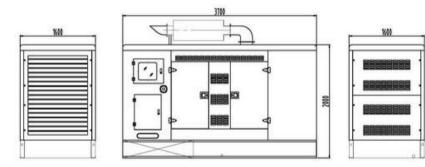
1.Open Version:



Open Type (Standard Configuration)
Overall Size: 2915×1000 ×1700mm(L*W*H)

Weight: 2420kg

2. Soundproof Version:



Soundproof Type

Overall size: 3600× 1400×1950mm(L*W*H)

Weight: 3040kg