

MODEL: VG395CS



Genset Model	VG395CS
Prime Power	288KW / 360KVA
Standby Power	316KW / 395KVA
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.

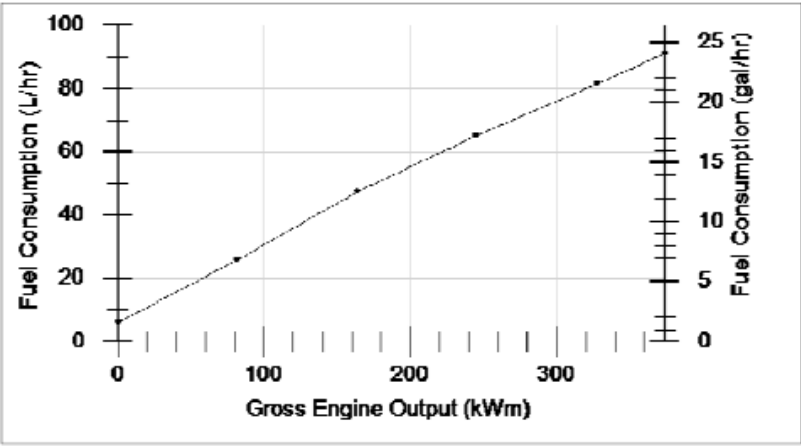
Cummins Engine Data:

Manufacturer	Dongfeng Cummins Engine Co., Ltd.
Model	QSZ13-G6
Engine speed	1500rpm
Engine power	
-----Continuous power	295kw / 395 HP
-----prime power	328kw / 440HP
-----standby power	374kw / 502HP
Air intake way	Turbocharged & Charge Air Cooled
Cylinder quantity	6
Bore * Stroke	130*163 mm
Displacement	13.0L
Fuel system	HPCR
Governor Regulation	≤1%
Low idle	700 rpm
Piston speed	8.15
Friction energy output	31

Fuel Consumption:

Engine Fuel Consumption @1,500 RPM

Output Power			Fuel Consumption			
%	bhp	kWm	lb/ bhp-h	kg/ kWm-h	gal/hr	l/hr
Standby Power						
100	502	374	0.344	0.209	24.1	91
Prime Power						
100	440	328	0.352	0.214	21.6	82
75	329	245	0.371	0.226	17.2	65
50	220	164	0.404	0.246	12.6	48
25	110	82	0.443	0.269	6.9	26
Continuous Power						
100	395	295	0.359	0.218	19.8	75



Exhaust system:

Maximum back pressure at Standby Power	3.84 in-Hg
--	------------

Air Induction System:

Maximum Intake Air Restriction	
--with Dirty Filter Element	25 in H2O
--with Normal Duty Air Cleaner and Clean Filter Element	13 in H2O

Lubrication system:

Oil Pressure	
Minimum low idle	12 psi
Governed speed	30 - 40 psi
Maximum Oil Temperature	257 deg F
Oil Capacity with OP2180 Oil Pan: Low-High	16.2 - 19.9 gal
Total System Capacity (with Combo Filter)	20.6 gal

Fuel system:

Type Injection System	
Maximum fuel supply restriction at fuel pump inlet	
with clean fuel filter element(s) at maximum fuel flow	5 in-Hg
with dirty fuel filter element(s) at maximum fuel flow	8 in-Hg
Maximum fuel inlet temperature	160 deg F
Maximum supply fuel flow	65.2 gal/hr
Maximum return fuel flow	

Electrical System:

System voltage	24 V
Minimum Recommended Battery Capacity	
cold soak at 10 deg C (50 deg F) and above	1,250 CCA
cold soak at 0 to 10 deg C (32 to 50 deg F)	1,250 CCA
cold soak at -18 to 0 deg C (0 to 32 deg F)	1,250 CCA
Maximum starting circuit resistance	0.002 Ohm

Cold start capability

Unaided Cold Start	
Minimum cranking speed	150 RPM
Minimum ambient temperature for unaided cold start	5 deg F -15 deg C
Aided Cold Start	
Cold starting aids available	None

Governed Engine Speed	RPM	Standby Power		Prime Power	
		1,800	1,500	1,800	1,500

Engine Idle Speed	RPM	650 - 750	650 - 750	650 - 750	650 - 750
Gross Engine PowerOutput	hp (kW)	550 (410)	502 (374)	483 (360)	440 (328)
Brake Mean EffectivePressure	psi (kPa)	306 (2,108)	335 (2,308)	267 (1,841)	293 (2,018)
Piston Speed	ft/min (m/s)	1,925 (9.8)	1,604 (8.1)	1,925 (9.8)	1,604 (8.1)
Friction Horsepower	hp (kW)	60 (45)	42 (31)	60 (45)	42 (31)
Engine Jacket Water Flow at Stated Friction Head external to Engine					
- 5 psi-5 psi FrictionHead	gpm (L/min)	125 (473)	107 (405)	125 (473)	107 (405)
- Maximum FrictionHead	gpm (L/min)				
Engine Data					
Intake Air Flow	ft3/min (L/s)	1,197 (565)	1,014 (478)	1,148 (542)	964 (455)
Exhaust Gas Temp - DryStack	deg F (deg C)	846 (452)	927 (497)	802 (428)	903 (484)
Exhaust Gas Flow	ft3/min (L/s)	2,820 (1,331)	2,615 (1,234)	2,621 (1,237)	2,456 (1,159)
Air to Fuel ratio		27.8:1	25.9:1	30.1:1	27.5:1
Heat Rejection to Ambient	BTU/min (kW)	2,318 (41)	2,142 (38)	2,054 (36)	1,897 (33)
Heat Rejection to JacketCoolant	BTU/min (kW)	9,437 (166)	8,526 (150)	8,511 (150)	7,363 (134)
Heat Rejection to Exhaust	BTU/min (kW)	16,773 (295)	16,523 (290)	14,838 (261)	14,910 (262)
Heat Rejection to Fuel*	BTU/min (kW)	284 (5)	284 (5)	284 (5)	284 (5)
ATA CAC					
Heat Rejection toAftercooler	BTU/min (kW)	6,049 (106)	5,016 (88)	5,488 (96)	4,311 (76)
Charge Air Flow	lb/min (kg/min)	88 (40)	75 (34)	84 (38)	71 (32)
TurbochargerCompressor Outlet	in-Hg (kPa)	80 (269)	78 (263)	73 (247)	72 (242)
TurbochargerCompressor Outlet	deg F (deg C)	385 (196)	405 (207)	385 (196)	397 (203)

Alternator Specifications:

Manufacturer	Cummins Generator Technologies(China) Co. Ltd
Model	HCI444FS
Output power	Prime power 380KVA, Standby power 404KVA
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.
 ♦ AREP or 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



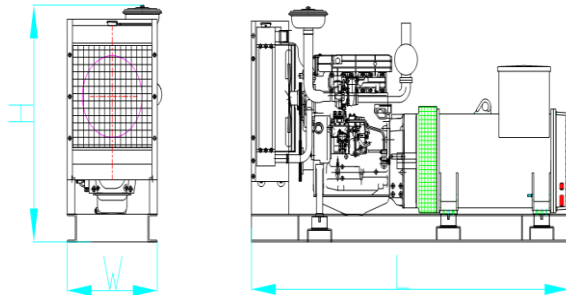
The **DSE6120** is made by DEEPSEA and is a new control module for single gen-set applications, and it is an Automatic Start Control Module and is simple to operate, and the module includes USB, RS232 and RS485 for expansion device connectivity.

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.

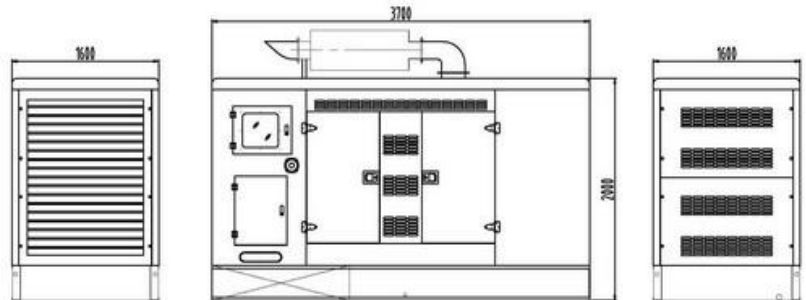
Weight and Dimensions

1. Open Version:



Open Type (Standard Configuration)
Overall Size: 2970×1360 ×2100mm(L*W*H)
Weight: 3200kg

2. Soundproof Version:



Soundproof Type
Overall size: 3700× 1600×2180mm(L*W*H)
Weight: 4000kg