



## DATA SHEET

The power for the better life

DIESEL GENERATOR SET  
50Hz/1500 rpm

### MODEL: VG888CS



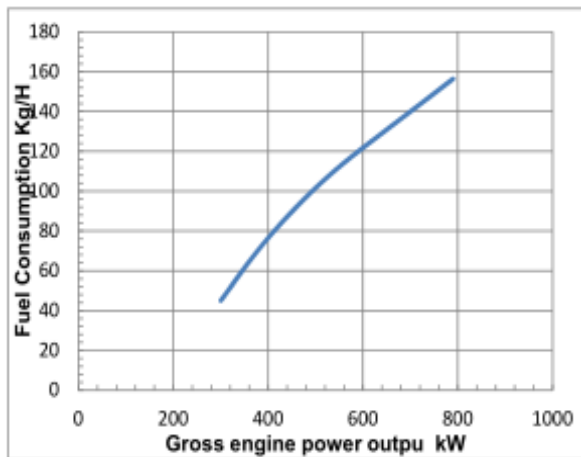
Genset Model	VG888CS
Prime Power(50HZ)	640KW / 800KVA
Standby Power(50HZ)	710KW / 888KVA
Frequency/Speed	50Hz/1500rpm
Standard Voltage	230V/400V
Phases	Three phases, four wires
Manufacturer	Vega Power International PTE.LTD

- ◆ 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.
- ◆ 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	Chongqing Cummins Engine Co. Ltd.
Model	KTA38-G2B
Engine speed	1500rpm
Engine power	
-----Standby power	789kw /1057BHP
-----Prime power	711kw /953BHP
Type	4 cycle, 60°Vee; 12-cylinder
Aspiration	Turbocharged and Aftercooled
Governor	electrical
Bore * Stroke	159*159 mm
Displacement	38 L
Compression ratio	14.5:1
Idle speed	575 – 650 r/min
Brake mean effective pressure	1663kPa
Piston speed	7.9 m/s
Friction horsepower	86kw(115BHP)

## Fuel Consumption:



OUTPUT POWER			CONSUMPTION		BFSC	
%	BHP	kW	Lb/h	Kg/h	g/kW.h	Lb/BHP.h
<b>1500RPM</b>						
<b>STANDBY</b>						
100	1058	790	345	156	198	0.326
<b>PRIME</b>						
100	953	711	313	142	200	0.328
75	715	533	240	109	204	0.335
50	536	400	169	77	191	0.315
25	402	300	99	45	150	0.247

## Exhaust system

Max. allowable back pressure	10 kPa
Standard exhaust pipe diameter	152 mm

## Air induction

Maximum allowable intake air restriction	
-----with clean filter element	3.73 kPa
-----with dirty filter element	6.23 kPa
Intake Air alarm temperature	82 °C

## Cooling system

Coolant capacity	
-----After-cooler only	23L
-----With heat exchanger	199L
-----With explanation tank & LTA	112L
Standard thermostat(modulating) range	82-93 °C
Max. coolant temerature	96.1 °C
Max. allowable top tank temerature for standby/prime power	104/100 °C

## Lubrication system

Oil Pressure	
-----Idle speed	138 kPa
-----Rated speed	310-448 kPa
Max. allowable oil temperature	121°C
Oil Pan capacity - Low/High	121.1 /151.4L
Total system capacity(excluding by-pass filter)	135.1 L
Angularity of oil pan-Front Down	30°

## Fuel System

Type Injection system	Direct injection Cummins PT
Min. Allowable fuel tank vent capability	425 L/h

## Electric system

Min. recommended battery capacity (24V)	
-----Cold soak at 10°C or above-----CCA	1200
-----Cold soak at 0-10°C or above-----CCA	1280
-----Cold soak at -18-0°C or above-----CCA	1800
Max. allowable resistance of Starting circuit	0.002 ohm
Starter(heave,Anode)	24 Volt
Battery recharge system, negative ground	35 ampere

## Performance data

	Standby power	Prime power
Governed Engine Speed.....RPM	1500RPM	1500RPM
Engine Idle Speed.....RPM	725-775	725-775
Gross Engine Power Output.....KW	790	711
Friction Horsepower.....KW	86	86
Intake Air Flow.....Litre/sec	920	850
Exhaust Gas Flow.....Litre/sec	2643	2398
Exhaust Gas Temperature...°C	552	541
Heat Rejection to Ambient/min(KW)	111	101
Heat Rejection to Coolant.....KW	448	407

## Alternator Specifications:

Manufacturer	Cummins Generator Technologies(China) Co. Ltd
Model	HCI634G
Frequency	50HZ
Voltage	400V
Output power-----Continuous duty/40°C	800kVA /640kW
-----Stand-by/27°C	880kVA / 704kW
Phase	3 ph.
Power factor	P.F.=0.8
Insulation class	H
Winding pitch	2/3 (N° 6S )
Number of wires	6
Protection	IP23
Altitude	≤ 1000 m
Overspeed	2250 min <sup>-1</sup>
Excitation system	Shunt
AVR type	MX321
Voltage regulation	±0.5%
Short-circuit current	300% (3IN) 0s
Waveform distortion	no load < 1.5% non-distorting balanced linear load < 5.0%
Telephone interference	THF< 2%
Air follow	1.1 m <sup>3</sup> /s
Relative humidity	≤ 95%
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

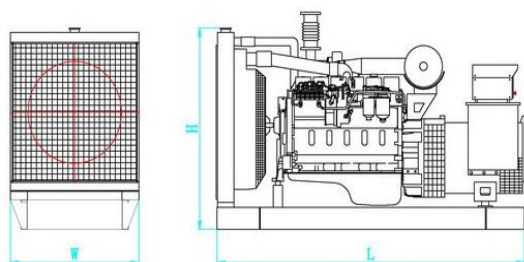
for expansion device connectivity.

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.

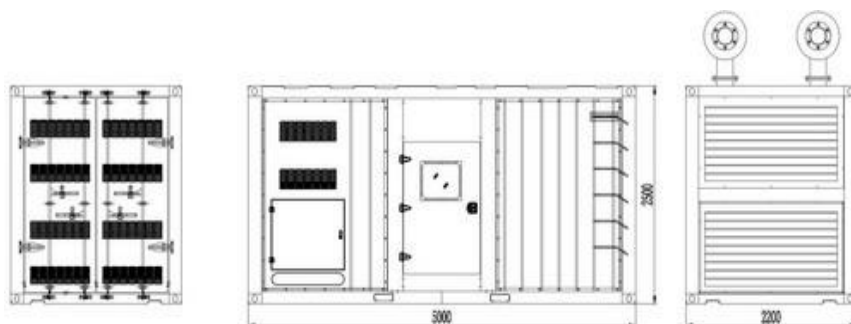
## Weight and Dimensions

### 1. Open Version:



Open Type (Standard Configuration)  
Overall Size: 4200×1700×2200mm(L\*W\*H)  
Weight: 7013kg

### 2. Soundproof Version:



Soundproof Type  
Overall size: 5800× 2280×2500mm(L\*W\*H)  
Weight: 8063kg